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(54) Title: CRYSTAL STRUCTURE OF A DEACETYLASE AND INHIBITORS THEREOF

(57) Abstract: The present invention provides three-dimensional structural information from the hyperthermophilic bacterium Aquifex aeolicus which is a histone deacetylase-like protein (HDLP). HDLP shares 35.2% amino acid sequence identity with human histone deacetylase (HDAC1). The present invention further provides three-dimensional structural information of HDLP bound by inhibitor molecules. The three-dimensional structural information of the present invention is useful to design, isolate and screen deacetylase inhibitor compounds capable of inhibiting HDLP, HDAC family members and HDLP-related molecules. The invention also relates to nucleic acids encoding a mutant HDLP which facilitates the determination of the three-dimensional structure of HDLP in the presence of a zinc atom.

CRYSTAL STRUCTURE OF A DEACETYLASE AND INHIBITORS THEREOF

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This application claims priority of U.S. Provisional Application No. 60/152,753, filed September 8, 1999, the contents of which are hereby incorporated by reference.

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This invention has been made with government support under National Institutes of Health Grant No. RO1 CA-65698. Accordingly, the U.S. Government may have certain rights in the invention.

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Throughout this application, various publications are referenced by author, date and citation. The disclosures of these publications in their entireties are hereby incorporated by reference into this application in order to more fully describe the state of the art as known to those skilled therein as of the date of the invention described and claimed herein.

Introduction

The present invention relates to a histone deacetylase homologue from the hyperthermophilic bacterium Aquifex aeolicus, HDLP (histone deacetylase like protein; also known as AcuCl), which shares 35.2 % sequence identity with human histone deacetylase (HDACl), that can be co-crystallized with an inhibitory ligand, and more particularly, to the detailed crystallographic data obtained from said co-crystallization which is disclosed herein. The invention also relates to methods of using the crystal structure and x-ray crystallographic coordinates of the apo-HDLP and

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inhibitor-bound HDLP to design, isolate and screen compounds which bind to and inhibit the active site of HDLP and HDLP-related proteins, such as those proteins belonging to the HDAC family, including HDAC1.

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Background of the Invention

The reversible modification of histones by acetylation is associated with changes in nucleosome conformation and chromatin structure, and plays an important role in the regulation of gene expression (reviewed in Davie and Chadee, 1998, J. Cell Biochem. Suppl. 30-31:203-213). The histone acetylase and deacetylase enzymes that carry out these modifications are involved in many cellular processes such as cell cycle progression and differentiation, and their deregulation is associated with several types of human cancer (reviewed in Kouzarides, 1999, Curr. Opin. Genet. Dev. 2:40-48; Hassig et al., 1997, Chem. Biol. 4:783-789; Fenrick and Heibert, 1998, J. Cell. Biochem. Suppl. 30-31:194-202).

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Recently, several experimental antitumor compounds, such as trichostatin A (TSA), trapoxin, suberoylanilide hydroxamic acid (SAHA), and phenylbutyrate have been shown to act, at least in part, by inhibiting histone deacetylases. Richon et al., 1998, Proc. Natl. Acad. Sci., USA 95:3003-3007; Yoshida et al., 1990, J. Biol. Chem. 265:17174-17179; Kijima et al., 1993, J. Biol. Chem. 268:22429-22435. Additionally, diallyl sulfide and related molecules (Lea et al., 1999, Int. J. Oncol. 2:347-352), oxamflatin (Kim et al., 1999, Oncogene 15:2461-2470), MS-27-275, a synthetic benzamide derivative (Saito et al., 1999, Proc. Natl. Acad. Sci. 96:4592-4597),

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butarate derivatives (Lea and Tulsyan, 1995, Anticancer Res. 15:879-883), FR901228 (Nokajima et al., 1998, Exp. Cell Res. 241:126-133), depudecin (Kwon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3356-3361) and m-carboxysinnamic acid 5 bishydroxamide (CBHA; Richon et al., Proc. Natl. Acad. Sci. USA 95:3003-3007) have been shown to inhibit histone deacetylases. In vitro, these compounds can inhibit the growth of fibroblast cells by causing cell cycle arrest in the G1 and G2 phases (Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; Kim et al., 1999, 10 18:2461-2470; Yoshida et al., 1995, Bioessays 17:423-430; Yoshida & Beppu, 1988, Exp. Cell. Res. <u>177</u>:122-131), and can to the terminal differentiation and loss lead transforming potential of a variety of transformed cell 15 Richon et al., 1996, Proc. Natl. Acad. Sci. USA lines. 93:5705-5708; Kim et al., 1999, Oncogene 18:2461-2470; Yoshida et al., 1987, Cancer Res. 47:3688-3691. In vivo, phenylbutyrate is effective in the treatment of acute promyelocytic leukemia in conjunction with retinoic acid. Warrell et al., 1998, J. Natl. Cancer Inst. 90:1621-1625. SAHA is effective in preventing the formation of mammary tumors in rats, and lung tumors in mice. Desai et al., 1999, Proc. AACR 40: abstract #2396; Cohen et al., Cancer Res., submitted.

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Histone deacetylases catalyze the removal of acetyl groups from the ε -amino groups of lysine residues clustered near the N-terminus of nucleosomal histones, and this process is associated with transcriptional repression (reviewed in Struhl, 1998, Genes Dev. 12:599-606). Deletion of the yeast histone deacetylase gene, rpd3, or its pharmacological

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inactivation with trichostatin A reduces the transcriptional repression in a subset of promoters, such as those of Ume6-regulated genes. Kadosh & Struhl, 1998, Mol. Cell. Biol. 18:5121-5127. This is accompanied by the increased acetylation of H4 histones in the repressed promoter and its vicinity, but has no effect on histones at promoter distal regions. Kadosh & Struhl, 1998, Mol. Cell. Biol. 18:5121-5127; Rundlett et al., 1998, Nature 392:831-835.

Histone deacetylases are recruited to specific promoters by associating with DNA-binding transcriptional repressors, either directly or through co-repressors that bridge the deacetylase to the transcriptional repressors. For example, the Mad and Ume6 repressors bind to the co-repressor Sin3A (Laherty et al., 1997, Cell 89:349-356; Hassig et al., 1997, Cell 89:341-347; Kadosh & Struhl, 1997, Cell 89:365-371), and the nuclear receptors bind N-CoR and the related SMRT co-repressors. Nagy et al., 1997, Cell 89:373-380; Alland et al, 1997, Nature 387:49-55; Heinzel et al, 1997, Nature 387:43-48.

The deregulation of histone deacetylase recruitment appears to be one of the mechanisms through which these enzymes contribute to tumorigenesis. In acute promyelocytic leukemia (APL), chromosomal translocations fuse the retinoic acid receptor- α (RAR α) to either PLZF or to PML. These fusion oncoproteins have aberrant transcriptional repression activity resulting, in part, through the recruitment of a co-repressor and, in turn, HDACs. Grignani et al, 1998, Nature 391:815-818; Lin et al., 1998, Nature 391:811-814. Treatment of PLZF-RAR α APL cells with TSA enhances their

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responsiveness to retinoic acid-induced differentiation. Grignani et al, 1998, Nature 391:815-818; Lin et al., 1998, Nature 391:811-814.

histone deacetylases comprise a large family of 5 proteins, conserved from yeast to man, and are divided into two related classes. Class I is characterized by human HDAC1, 2, 3 (Taunton et al., 1996, Science 272:408-411; Yang et al., 1996, Proc. Natl. Acad. Sci. USA 93:12845-12850; Emiliani et al., 1998, Proc. Natl. Acad. Sci. USA 95:2795-10 2800), and yeast RPD3 (Videl & Gaber, 1991, Mol. Cell. Biol. 11:6317-6327), and class II by the human HDAC4, 5, 6 (Grozinger et al., 1999, Proc. Natl. Acad. Sci. USA 96:4868-4873; Fischle, et al., 1999, J. Biol. Chem. <u>274</u>:11713-11720), and yeast HDA1 (Rundlett et al., 1996, Proc. Natl. 15 Acad. Sci. USA 93:14503-14508). The two classes share a ~390 amino acid region of sequence similarity, comprising the deacetylase core, but are divergent outside this region. The histone deacetylase genes belong to an even larger superfamily (Leipe & Landsman, 1997, Nucleic Acids Res. 20 <u>25</u>:3693-3697) that contains the prokaryotic acetoin utilization proteins (AcuC; 28.1% sequence identity to HDAC1), and the prokaryotic acetylpolyamine amidohydrolases (APAH; 15.0 % sequence identity to HDAC1). The enzymatic activity of AcuC is not clear, but its disruption reduces 25 the ability of B. subtilis to breakdown acetoin and utilize it as a carbon source. Grundy et al., 1993, Mol. Microbiol. 10:259-271. APAHs catalyze the deacetylation of polyamines by cleaving a non-peptide amide bond (reviewed in Leipe & Landsman, 1997, *Nucleic Acids Res*. <u>25</u>:3693-3697). 30

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It is useful to address the questions of how HDACs and HDACrelated proteins catalyze the deacetylation of histones and how the above-referenced compounds, particularly those compounds with antitumor activity, inhibit this activity in order to better understand the mechanism of inhibition of HDACs and to facilitate discovery of additional useful compounds which may inhibit this activity. To this end, the present invention has determined the three dimensional structure of a HDAC1-like protein from the thermophilic bacterium Aquifex aeolicus, herein after HDLP. determination of the nucleic acid coding sequence of HDLP was described by Deckert et al., 1998, Nature 392:353-358. encoded 375 residue protein, whose sequence was determined from the nucleic acid encoding sequence, shares 35.2% amino acid sequence identity with HDAC1, deacetylates histones in vitro, and is inhibited by TSA, SAHA and several The determination of the threeother HDAC inhibitors. dimensional structure of HDLP is useful in the design, identification and screening of new HDAC family inhibitory compounds which are useful for the inhibition of cell growth both in vivo and in vitro.

Summary of the Invention

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In general, it is the object of the present invention to provide detailed three-dimensional structural information for a family of proteins known as histone deacetylases (HDAC), and particularly a homologue from the hyperthermophilic bacterium Aquifex aeolicus HDLP (histone deacetylase-like protein) which shares 35.2 % sequence identity with human histone deacetylase (HDAC1). It is also an object of the present invention to provide three-

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dimensional structural information of an HDLP bound to an inhibitory compound.

In one embodiment of the invention, three-dimensional 5 structure information is obtained from a crystal of wildtype HDLP (SEQ ID NO:1) (the nucleic acid encoding wild-type HDLP is SEQ ID NO:2). In a further embodiment of the invention, three-dimensional information is obtained from a mutant HDLP comprising two mutations (1) cysteine 75 to a serine and (2) cysteine 77 to a serine (Cys75Ser/Cys77Ser 10 double mutant; SEQ ID NO:3) (the nucleic acid encoding HDLP Cys75Ser/Cys77Ser double mutant is SEQ ID NO:4). The HDLP mutant of the present invention facilitates the determination of three-dimensional structural information of HDLP bound to a zinc atom at its zinc atom-binding site. 15

In a preferred embodiment of the invention, the threedimensional structural information is obtained from a cocrystal of a protein-inhibitor compound complex that comprises HDLP or HDLP Cys75Ser/Cys77Ser double mutant and trichostatin A (TSA). In another preferred embodiment of the invention the three-dimensional structural information is obtained from a co-crystal of a protein-inhibitor compound complex that comprises HDLP or HDLP Cys75Ser/Cys77Ser double mutant and suberoylanilide hydroxamic acid (SAHA). Any HDLP or HDLP-related protein (e.g. HDAC) inhibitor compound that may be co-crystallized with HDLP may be used to form a co-crystal of the present invention.

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The protein crystals and protein-inhibitory complex cocrystals of the present invention diffract to a high

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resolution limit of at least equal to or greater than 4 angstrom (Å). In a preferred embodiment, the protein crystals and protein-inhibitory complex co-crystals of the present invention diffract to a high resolution limit of greater than 2.5 Å.

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A crystal of the present invention may take a variety of forms, all of which are contemplated by the present invention. In a preferred embodiment, the crystal has a space group of C2 with one molecule in the asymmetric unit and with unit dimensions of a = 51.4 Å, b = 93.8 Å, 78.7 Å and $\beta = 96.9^{\circ}$ (see, e.g., Example 2, below). another preferred embodiment, the crystal has a space group of P2,2,2, with two molecules in the asymmetric unit and with unit dimensions of a = 53.4 Å, b = 94.4 Å, c = 156.3 Å (see, e.g., Example 2, below). The HDLP structure comprises a parallel β sheet with α helices packing against both faces. At one end of the β sheet, the HDLP has a narrow, tube-like pocket formed by several well-ordered loops. The walls of the pocket are lined with hydrophobic residues and there is a zinc binding site and several polar side chains at the bottom of the pocket. The inhibitory compounds of the present invention bind in the pocket.

25 The three-dimensional structural information obtained from crystals of HDLP, HDLP Cys75Ser/Cys77Ser double mutant, HDLP Cys75Ser/Cys77Ser double mutant comprising a zinc atom, HDLP comprising an inhibitory compound such as TSA or SAHA, and HDLP Cys75Ser/Cys77Ser double mutant comprising an inhibitor compound such as TSA or SAHA may be employed to solve the structure of any HDLP-related protein (e.g. HDAC) crystal,

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or any mutant HDLP-related protein and particularly any wild type or mutant of HDLP-related protein complexed with a ligand, including a substrate or inhibitor compound. If the crystals are in a different space group than the known structure, molecular replacement may be employed to solve the structure, or if the crystals are in the same space group, refinement and difference fourier methods may be employed. The structure of HDLP-related proteins (e.g. HDAC1) comprise no greater than a 2.0 Å root mean square deviation (rmsd) in the positions of the $C\alpha$ atoms for at least 50% or more of the amino acids of the full-length HDLP structure.

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The present invention also provides a nucleic acid molecule encoding an HDLP Cys75Ser/Cys77Ser double mutant having the amino acid sequence of SEQ ID NO:3 and the nucleic acid sequence of SEQ ID NO:4. It is also contemplated by the invention that mutations be made in HDLP-related proteins at cysteine residues, as with the Cys75Ser/Cys77Ser double mutant, in order to facilitate the determination of the structure of said proteins bound to a zinc atom. Additionally, the present invention provides expression vectors which comprise the nucleic acid molecule encoding an HDLP Cys75Ser/Cys77Ser double mutant encoded by the sequence represented by SEQ ID NO:4 operatively linked to expression control sequences.

It is another object of the present invention to provide methods for the design, identification and screening of potential inhibitor compounds of the HDLP/HDAC family. In a preferred embodiment the method for the rational design,

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screening of potential identification and compounds for HDLP and HDLP-related proteins (e.g. HDACs) comprising deacetylase activity comprises the steps of: (a) using a three-dimensional structure of an HDLP as defined by the atomic coordinates of the present invention; employing said three-dimensional structure to design or select said potential inhibitor compound; (c) synthesizing and/or selecting said potential inhibitor; (d) contacting said potential inhibitor compound with said enzyme in the presence of acetylated substrate; and (e) determining the percent inhibition of deacetylase activity to determine the inhibitory activity of said potential inhibitor compound. In a further preferred embodiment, the binding properties of said rationally designed inhibitory compound may determined by a method comprising the steps of: (a) forming a complex comprising said inhibitory compound and HDLP or a HDLP-related protein, (b) co-crystallizing said inhibitory determining said compound-HDLP complex; (c) dimensional structure of said co-crystal through molecular replacement or refinement and difference fourier with the molecular coordinates of HDLP as defined by the present invention; and (d) analyzing the three-dimensional structure to determine the binding characteristics of said potential inhibitor compound.

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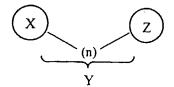
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It is a further object of the present invention to identify a defined class of HDLP/HDAC family inhibitor compounds. The HDLP/HDAC family inhibitor compounds of the present invention are represented by formula (I):

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(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of proline and leucine; Y comprises an aliphatic chain group which binds to at least one amino acid selected from the group consisting of leucine, phenylalanine and glycine; and Z comprises and active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and may further bind to a zinc atom.

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Brief Description of the Drawings

Figure 1 is a table listing the statistics from the X-ray crystallographic analysis of a HDLP crystal, a HDLP-TSA cocrystal, and a HDLP-SAHA co-crystal.

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Figure 2 shows an alignment of various HDAC homologues with percent sequence identity depicted.

Figure 3 shows a graph indicating the histone deacetylase activity of HDLP and HDAC1 and the inhibition of HDLP and HDAC1 by the inhibitors TSA and HC-toxin.

Figure 4 shows (A & B) a schematic representation of the $HDLP-Zn^{2+}-TSA$ complex in two approximately orthogonal views, (C) a topology diagram of HDLP indicating the regions of homology with HDAC1, and (D) a close-up schematic representation of the $HDLP-Zn^{2+}-SAHA$ complex.

Figure 5 shows (A) a schematic representation of a slice through a surface representation of HDLP with the pocket internal cavities and position of the β sheet indicated, (B) a schematic representation of a close-up view of the active site looking down into the pocket in an orientation similar to Figure 4B.

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Figure 6 shows (A) a space-filling representation of TSA in the active site pocket, (B) a closeup stereo view of the structure of the $HDLP-ZN^{2+}-TSA$ complex in a similar orientation to Figure 4B, and (C) a schematic representation of the HDLP-TSA interactions.

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Figure 7 shows (A) a schematic representation of the regions of homology shared between HDLP and HDAC1 in an orientation similar to that of Figure 4A, and (B) a detailed schematic representation of the homology shared in the pocket and internal cavity between HDLP and HDAC1 in an orientation similar to that of Figure 4B.

Figure 8 shows a schematic representation of the proposed catalytic mechanism for the deacetylation of acetylated lysine.

Figure 9 shows a schematic representation of a space filling diagram showing the conserved amino acids in the active site and nearby grooves.

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Figure 10 is the nucleic acid sequence of HDLP from Aquifex aeolicus (SEQ ID NO. 2).

Figure 11 is the amino acid sequence of full length HDLP from Aquifex aeolicus (SEQ ID NO. 1).

Figure 12 is the nucleic acid sequence of the HDLP active site mutant Tyr297Phe (SEQ ID NO. 6).

Figure 13 is the amino acid sequence of the HDLP active site mutant Tyr297Phe (SEQ ID NO. 5).

Figure 14 is the nucleic acid sequence of a double mutant of HDLP from Aquifex aeolicus comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO. 4).

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Figure 15 is the amino acid sequence of a double mutant of HDLP from Aquifex aeolicus comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO. 3).

Figure 16-1 to 16-49 lists the atomic structure coordinates for HDLP as derived by X-ray diffraction from a crystal of HDLP.

Figure 17-1 to 17-49 lists the atomic structure coordinates

10 for HDLP Cys75Ser/Cys77Ser double mutant comprising a zinc
atom in the active site as derived by X-ray diffraction from
a crystal of the HDLP Cys75Ser/Cys77Ser double mutant.

Figure 18-1 to 18-99 lists the atomic structure coordinates

for HDLP Cys75Ser/Cys77Ser double mutant as derived by X-ray
diffraction from a co-crystal of HDLP complexed with TSA.

Figure 19-1 to 19-48 lists the atomic structure coordinates for HDLP Cys75Ser/Cys77Ser double mutant as derived by X-ray diffraction from a co-crystal of HDLP complexed with SAHA.

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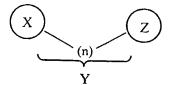
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Detailed Description of the Invention

The present invention provides crystals of a histone deacetylase (HDAC) homologue grown in the presence and absence of a compound capable of inhibiting the histone deacetylase activity of said HDAC homologue. As referred to herein, a HDAC homologue (as well as a HDLP-related protein) is any protein molecule having (a) greater than 15% sequence identity to over the 375 amino acid residues of HDLP; (b) having no more than twenty insertions or deletions for a total of no more than 100 amino acids; and (c) deacetylase activity. Sequence identity is calculated by the program DNAstar™ using the identity matrix weighing scheme clustal method (DNAstar program, Madison, WI).

A HDLP/HDAC inhibitor compound, as used herein, refers to any compound represented by Formula (I):

(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of tyrosine, proline and leucine; Y comprises an aliphatic chain group from about 5 to about 10 Å, preferably 7Å, which binds to at least one amino acid selected from the group consisting of phenylalanine and glycine; and Z comprises a active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and which may further bind to a zinc atom. The HDAC inhibitory compounds of the present

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invention can inhibit greater than 50% of the histone deacetylase activity of a HDAC homologue or a HDLP-related protein.

To grow the crystals of the present invention, the HDAC and HDAC-inhibitory compound complex are purified to greater than 80% total protein and more preferably purified to greater than 90% total protein. For expression and purification purposes, the full-length HDLP (Genbank accession number AE000719) may be subcloned from Aquifex aeolicus chromosomal DNA preparation by the polymerase chain reaction (PCR) and inserted into an expression vector.

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A large number of vector-host systems known in the art may be used. Possible vectors include, but are not limited to, plasmids or modified viruses, but the vector system must be compatible with the host cell used. Examples of vectors include E. coli bacteriophages such as lambda derivatives, or plasmids such as pBR322 derivatives or pUC plasmid e.g., pGEX vectors derivatives, (Amersham-Pharmacia, Piscataway, New Jersey), pET vectors (Novagen, Madison, WI), pmal-c vectors (Amersham-Pharmacia, Piscataway, New Jersey), pFLAG vectors (Chiang and Roeder, 1993, Pept. Res. 6:62-64), baculovirus vectors (Invitrogen, Carlsbad, CA; Pharmingen, San Diego, CA), etc. The insertion into a cloning vector can, for example, be accomplished by ligating the DNA fragment into a cloning vector which has complementary cohesive termini, by blunt end ligation if no complementary cohesive termini are available or by through nucleotide linkers using techniques standard in the art. E.g., Ausubel et al. (eds.), Current Protocols in Molecular

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Biology, (1992). Recombinant vectors comprising the nucleic acid of interest may then be introduced into a host cell compatible with the vector (e.g. E. coli, insect cells, mammalian cells, etc.) via transformation, transfection, infection, electroporation, etc. The nucleic acid may also be placed in a shuttle vector which may be cloned and propagated to large quantities in bacteria and then introduced into a eukaryotic cell host for expression. The vector systems of the present invention may provide expression control sequences and may allow for the expression of proteins in vitro.

In a preferred embodiment, the full length HDLP (SEQ ID NO:2) is subcloned from Aquifex aeolicus chromosomal DNA preparation into pGEX4T3 (Amersham-Pharmacia, Piscataway, New Jersey). In order to construct a double mutant comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO:4), and to construct the HDLP active site mutant Tyr297Phe (SEQ ID NO:5 and SEQ ID NO:6), PCR site directed mutagenesis may be employed with verification by DNA sequencing by methods known to those skilled in the art (see, e.g., Example 1 below). The mutants of the present invention may be subcloned into a suitable expression vector and introduced into a host cell for protein production, as described above.

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The HDLP nucleic acids of the present invention may be subcloned into an expression vector to create an expression construct such that the resultant HDLP molecule which is produced comprises a fusion protein wherein said fusion protein comprises a tag for ease of purification. As referred to herein, a "tag" is any additional amino acids

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which are provided in a protein either c-terminally, nterminally or internally for the ease of purification, for the improvement of production or for any other purpose which may facilitate the goals of the present invention (e.g. to achieve higher levels of production and/or purification). Such tags include tags known to those skilled in the art to be useful in purification such as, but not limited to, his tag, glutathione-s-transferase tag, flag tag, mbp (maltose binding protein) tag, etc. In a preferred embodiment, the wild-type and mutant HDLPs of the present invention are tagged with glutathione-s-transferase (see Example 1 below). In another preferred embodiment, HDAC1 is flag tagged (see Example 1 below). Such tagged proteins may also be engineered to comprise a cleavage site, such as a thrombin, enterokinase or factor X cleavage site, for ease of removal of the tag before, during or after purification. systems which provide a tag and a cleavage site for removal of the tag are particularly useful to make the expression constructs of the present invention.

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The tagged HDLPs and HDACs of the present invention may be purified by immuno-affinity or conventional chromatography, including but not limited to, chromatography employing the glutathione-sepharose™ (Amersham-Pharmacia, following: Piscataway, New Jersey) or an equivalent resin, nickel or cobalt-purification resins, anion exchange chromatography, cation exchange chromatography, hydrophobic resins, gel filtration, antiflag epitope resin, reverse chromatography, etc. After purification, the HDLP and HDLPinhibitor compound complex may be concentrated to greater than 1 mg/ml for crystallization purposes. In a preferred HDLP and HDLP-inhibitor complexes embodiment

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concentrated to greater than 10 mg/ml for crystallization and in a particularly preferred embodiment, HDLP and HDLP-inhibitor complexes are concentrated to greater than 20 mg/ml.

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In order to determine whether the purified HDLPs of the present invention demonstrate histone deacetylase activity, the purified HDLPs and also any HDLP-related protein may be assayed by any method known to those skilled in the art for the determination of said activity. In a preferred embodiment, the purified HDLPs of the present invention are incubated in the presence of [3H]acetyl-labeled histone substrate (Carmen et al., 1996, J. Biol. Chem. 271:15837-15844) in a buffer suitable for detection of histone deacetylase activity (see Example 3 below); stopping the reaction; extracting the released acetate and measuring said released acetate, as described by Henzel et al. (J. Biol. Chem. <u>266</u>:21936-21942 (1991); Example 3 below). preferred embodiment, the HDLPs of the present invention are inclubated in the presence of ${\rm ZnCl}_2$ in order to obtain histone deacetylase activity therefrom (Example 3 below).

In another embodiment, the crystals of the present invention comprise purified wild-type HDLP (SEQ ID NO:1) and are grown at room temperature by the hanging-drop vapor-diffusion method from a crystallization solution comprising one or more precipitants selected from the group consisting of isopropanol, polyethylene glycol, and tert butanol (see Example 2 below). The crystallization solution may further comprise one or more salts including salts selected from the group consisting of NaCl and KCl, and one or more buffers

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including buffers selected from the group consisting of Tris (tris(hydroxymethyl)aminomethane and bis-tris propane-Cl (1,3-bis[tris(hydroxymethyl)methyl-amino] propane) (see Example 2 below). The pH of the crystallization solution is preferably between pH 5 to 9, although other pH values are also contemplated by the present invention (see Example 2 below).

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Any crystallization technique known to those skilled in the art may be employed to obtain the crystals of the present invention, including, but not limited to, batch crystallization, vapor diffusion (either by sitting drop or hanging drop) and micro dialysis. Seeding of the crystals in some instances may be required to obtain X-ray quality crystals. Standard micro and/or macro seeding of crystals may therefore be used.

The crystals of the present invention may form in the space group C2 with one molecule in the asymmetric unit and with unit dimensions of a=51.4 Å, b=93.8 Å, c=78.7 Å and $\beta=96.9^{\circ}$ (see Example 2 below). The crystals of the present invention may also form in the space group $P2_12_12_1$ with two molecules in the asymmetric unit and with unit dimensions of a=53.4 Å, b=94.4 Å, c=156.3 Å (see Example 2 below). However, the present invention contemplates crystals which form in any space group including, but not limited to, C2, $P2_1$, $P2_12_12_1$, $P3_121$, $P4_32_12_1$, and $C222_1$. The crystals diffract to a resolution greater than 4 Å, preferably greater than 2.5 Å.

To collect diffraction data from the crystals of the present

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invention, the crystals may be flash-frozen crystallization buffer employed for the growth of said crystals, however with preferably higher precipitant concentration (see, e.g., Example 2 below). For example, but not by way of limitation, if the precipitant used was 28% PEG 1500, the crystals may be flash frozen in the same crystallization solution employed for said crystal growth wherein the concentration of the precipitant is increased to 35% (see Example 2 below). If the precipitant is not a sufficient cryoprotectant (i.e. a glass is not formed upon flash-freezing), cryoprotectants (e.g. glycerol, molecular weight PEGs, alcohols, etc) may be added to the solution in order to achieve glass formation upon flashfreezing, providing the cryoprotectant is compatible with preserving the integrity of the crystals. The flash-frozen crystals are maintained at a temperature of less than -110°C and preferably less than -150°C during the collection of the crystallographic data by X-ray diffraction. diffraction data may be processed with DENZO and SCALEPACK (Otwinowski & Minor, 1997, Method Ensemble. 276:307-326) but any method known to those skilled in the art may be used to process the X-ray diffraction data.

In order to determine the atomic structure of HDLP according to the present invention, multiple isomorphous replacement 25 (MIR) analysis, model building and refinement may be performed. For MIR analysis, the crystals may be soaked in heavy-atoms to produce heavy atom derivatives necessary for As used herein, heavy atom derivative or MIR analysis. derivitization refers to the method of producing a chemically modified form of a protein or protein complex

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crystal wherein said protein is specifically bound to a heavy atom within the crystal. In practice a crystal is soaked in a solution containing heavy metal atoms or salts, or organometallic compounds, e.g., lead chloride, gold cvanide, thimerosal, lead acetate, uranyl acetate, mercury chloride, gold chloride, etc, which can diffuse through the crystal and bind specifically to the protein. location(s) of the bound heavy metal atom(s) or salts can be determined by X-ray diffraction analysis of the soaked This information is used to generate MIR phase crystal. information which is used to construct the three-dimensional structure of the crystallized HDLPs and HDLP-related proteins of the present invention. In a preferred embodiment, the heavy atoms comprise thimerosal, KAu(CN)2 and Pb(Me)₃OAc (see Example 2 below). The MIR phases may be calculated by any program known to those skilled in the art and preferably with the program MLPHARE (The CCP4 suite: Programs for computational crystallography, 1994, Crystallogr. D. 50:760-763) and may also use the anomalous diffraction signal from the thimerosal derivative. preferred embodiment, the MIR phases were calculated at 2.5 Å and have a mean figure of merit of 0.55 (see Figure 19 and The phases may be improved where Example 2 below). necessary by solvent flattening by methods known to those skilled in the art including, but not limited to, through the use of the program DM (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D <u>50</u>:760-763).

30 Thereafter, an initial model of the three-dimensional structure may be built using the program O (Jones et al.,

1991, Acta Crystallogr. A $\underline{47}$:110-119). The interpretation and building of the structure may be further facilitated by use of the program CNS (Brunger et al., 1998, Acta Crystallogr. D $\underline{54}$:905-921).

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For the determination of the HDLP-inhibitor compound complex structure, if the space group of the HDLP-inhibitor compound complex crystal is different, molecular replacement may be employed using a known structure of apo-HDLP (as referred to herein, apo-HDLP or apo-HDAC is the enzyme which is not complexed with an inhibitor compound) or any known HDLP/inhibitor complex structure whose structure may be determined as described above and below in Example 2. Ιf the space group of the HDLP-inhibitor compound crystals is the same, then rigid body refinement and difference fourier may be employed to solve the structure using a known structure of apo-HDLP (as referred to herein, apo-HDLP or apo-HDAC is the enzyme which is not complexed with an inhibitor compound) or any known HDLP/inhibitor complex structure.

The term "molecular replacement" refers to a method that involves generating a preliminary model of the three-dimensional structure of the HDLP crystals of the present invention whose structure coordinates are unknown prior to the employment of molecular replacement. Molecular replacement is achieved by orienting and positioning a molecule whose structure coordinates are known (in this case the previously determined apo-HDLP) within the unit cell as defined by the X-ray diffraction pattern obtained from an HDLP or HDLP-related protein crystal whose structure is

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unknown so as to best account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model and combined with the observed amplitudes to give an approximate Fourier synthesis of the structure whose coordinates are unknown. This in turn can be subject to any of several forms of refinement to provide a final, accurate structure.

Any method known to the skilled artisan may be employed to determine the structure by molecular replacement. example, the program AMORE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D. 50:760-763) may be employed to determine the structure of an unknown histone deacetylase +/- an inhibitor by molecular replacement using the apo-HDLP coordinates (Figure 16). For the structure determination of the inhibitory compound TSA, the structure of TSA was obtained from the Cambridge Database (Refcode TRCHST, Structural http://www.ccdc.cam.ac.uk >>) may be employed to define the stereochemical restraints used in the refinement with the program CNS (Brunger et al., 1998, Acta Crystallogr. D <u>54</u>:905-921).

The three-dimensional structural information and the atomic coordinates associated with said structural information of HDLP are useful for solving the structure of crystallized proteins which belong to the HDAC family by molecular replacement. Similarly, any structure of a crystallized protein which is thought to be similar in structure based on function or sequence similarity or identity to HDLP may be solved by molecular replacement with the HDLP structural

information of the present invention. The structure of HDLP-related proteins as determined by molecular replacement as described above and in Example 2 below, comprise a root mean square deviation (rmsd) of no greater than 2.0 Å in the positions of $C\alpha$ atoms for at least 50% or more of the amino acids of the structure over the 375 residues of full-length HDLP. Such a rmsd may be expected based on the amino acid sequence identity. Chothia & Lesk, 1986, Embo J. $\underline{5}$:823-826.

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The refined three-dimensional HDLP structures of the present 10 invention, specifically apo-HDLP, Cys75Ser/Cys77Ser double mutant HDLP comprising a zinc atom in the active site, HDLP/TSA complex comprising a zinc atom in the active site, and HDLP/SAHA complex comprising a zinc atom in the active site, are represented by the atomic coordinates set forth in 15 Figures 16 to 19 respectively. The refined model for apo-HDLP comprising amino acids 1-375 consists of wild-type HDLP residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered and was determined to a resolution 20 of 1.8 Å. Similarly, the refined Cys75Ser/Cys77Ser double mutant HDLP comprising a zinc atom in the active site also consists of residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered and was determined to a resolution of 2.0 Å. The refined model for the HDLP/TSA complex comprising a zinc atom in the 25 active site consists of the Cys75Ser/Cys77Ser double mutant HDLP residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered, has TSA in the binding pocket and was determined to a resolution of 2.1 Å. HDLP/SAHA complex is similar to the HDLP/TSA complex but has 30 SAHA in the binding pocket and was determined to a resolution of 2.5 Å.

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For the purposes of further describing the structure of HDLP and HDLP-related proteins, including, but not limited to, HDACs, from the data obtained from the HDLP crystals of the present invention, the definition of the following terms is provided:

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The term " β sheet" refers to two or more polypeptide chains (or β strands) that run alongside each other and are linked in a regular manner by hydrogen bonds between the main chain C=O and N-H groups. Therefore all hydrogen bonds in a beta-sheet are between different segments of polypeptide. Most β -sheets in proteins are all-parallel (protein interiors) or all-antiparallel (one side facing solvent, the other facing the hydrophobic core). Hydrogen bonds in antiparallel sheets are perpendicular to the chain direction and spaced evenly as pairs between strands. Hydrogen bonds in parallel sheets are slanted with respect to the chain direction and spaced evenly between strands.

The term "\alpha helix" refers to the most abundant helical 20 conformation found in globular proteins. The average length of an α helix is 10 residues. In an α helix, all amide protons point toward the N-terminus and all carbonyl oxygens point toward the C-terminus. The repeating nature of the phi, psi pairs ensure this orientation. Hydrogen bonds 25 within an α helix also display a repeating pattern in which the backbone C=O of residue X (wherein X refers to any amino acid) hydrogen bonds to the backbone HN of residue X+4. The α helix is a coiled structure characterized by 3.6 residues per turn, and translating along its axis 1.5 Å per 30 amino acid. Thus the pitch is 3.6x1.5 or 5.4 Å. The screw sense of alpha helices is always right-handed.

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The term "loop" refers to any other conformation of amino acids (i.e. not a helix, strand or sheet). Additionally, a loop may contain bond interactions between amino acid side chains, but not in a repetitive, regular fashion.

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Amino acid residues in peptides shall herein after be abbreviated as follows: Phenylalanine is Phe or F; Leucine is Leu or L; Isoleucine is Ile or I; Methionine is Met or M; Valine is Val or V; Serine is Ser or S; Proline is Pro or P; Threonine is Thr or T; Alanine is Ala or A; Tyrosine is Tyr or Y; Histidine is His or H; Glutamine is Gln or Q; Asparagine is Asn or N; Lysine is Lys or K; Aspartic Acid is Asp or D; Glutamic Acid is Glu or E; Cysteine is Cys or C; Tryptophan is Trp or W; Arginine is Arg or R; and Glycine is Gly or G. For further description of amino acids, please refer to Proteins: Structure and Molecular Properties by Creighton, T.E., W.H. Freeman & Co., New York 1983.

The term "positively charged amino acid" refers to any amino acid having a positively charged side chain under normal physiological conditions. Examples of positively charged amino acids are Arg, Lys and His. The term "negatively charged amino acid" refers to any amino acid having a negatively charged side chain under normal physiological conditions. Examples of negatively charged amino acids are Asp and Glu. The term "hydrophobic amino acid" refers to any amino acid having an uncharged, nonpolar side chain that is relatively insoluble in water. Examples of hydrophobic amino acids are Ala, Leu, Ile, Gly, Val, Pro, Phe, Trp and Met. The term "hydrophilic amino acid" refers to any amino acid having an uncharged, polar side chain that is

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relatively soluble in water. Examples of hydrophilic amino acids are Ser, Thr, Tyr, Asp, Gln, and Cys. The term "aromatic amino acid" refers to any amino acid comprising a ring structure. Examples of aromatic amino acids are His, Phe, Trp and Tyr.

The term "charge relay system" refers to a His-Asp arrangement as described by Fersht & Sperling, 1973, J. Mol. Biol. 74:137-149; Blow et al., 1969, Nature 221:337-340.

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information obtained from the three-dimensional The structures of the present invention reveal that HDLP has a single-domain structure that belongs to the open α/β class of folds (see, e.g., Branden, 1980, Q. Rev. Biophys. 13:317-38). Two orthogonal views of the overall threedimensional structure of HDLP are depicted in Figure 4A and The HDLP structure has a central eight-stranded parallel β sheet (strands arranged as $\beta 2 - \beta 1 - \beta 3 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 8$ and sixteen α helices (labeled α l through α 16 respectively). See Figure 4C. Four of the helices pack on either face of the β sheet (α 7, α 8, α 9, α 10 and α 11, α 12, α 13, α 14) forming the core α/β structure characteristic of this class of folds. Most of the remaining eight helices are positioned near one side of the β sheet, near stands β 2-Large, well defined loops (Loops L1-L7; Figure 4C) originate from the C-terminal ends of the β -strands. The extra helices and the large L1-L7 loops are associated with a significant extension of the structure beyond the core α/β motif. This extension of the structure gives rise to two prominent architectural features: a deep, narrow pocket and an internal cavity adjacent to the pocket. These

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two architectural features comprise the active site (see Figure 5A). The structure of HDLP-related proteins (e.g. HDACs) may also comprise the conserved α/β structure characteristic.

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The term "active site" comprises any or all of the following sites in HDLP, the substrate binding site, the site where the cleavage of an acetyl group from a substrate occurs or the site where an inhibitor of the HDAC family or, more particularly, HDLP binds. The active site, as referred to herein, comprises Aspl66, Asp258, His170, Tyr297, His131, His132, Asp168, Asp173, Phe141, Phe198, Leu265, Pro22 and Gly140, and also a metal bound at the bottom of the pocket by Asp173, Asp168 and His defined by the coordinates listed in Figures 16 to 19 with an rmsd of 2.0 Å. The metal which binds at the bottom of the pocket will be a divalent cation selected from the group consisting of zinc, cobalt or manganese.

The deep narrow pocket has a tube-like shape with a depth of ~ 11 Å. The pocket opening constricts half way down to ~ 4.5 by 5.5 Å, and becomes wider at the bottom (see Figure 5A). The pocket and its immediate surroundings are made up of loops L1 through L7.

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The walls of the pocket are covered with side chains of hydrophobic and aromatic residues (Pro22, Tyr91 near the entrance; and Gly140, Phe141, Phe 198, Leu265 and Tyr297 further down; Figure 5B). For numbering of amino acids please refer to SEQ ID NO:1. Of particular interest are Phe141 and Phe198, whose phenyl groups face each other in

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parallel at a distance of 7.5 Å, marking the most slender portion of the pocket (see Figure 5B). Of particular interest is that only one pocket residue differs in HDAC1 when the sequences are aligned (alignment may be accomplished using DNAstar[™] MegAlign[™] program, Madison, WI), this residue is Glu98 of HDAC1 which is Tyr91 in HDLP. The structure reveals that this residue in HDLP is mostly solvent exposed.

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Near the bottom of the pocket of the active site at its narrowest point, is located a zinc ion (see Figure 6A). In order to obtain the zinc in the structure, the crystals may be soaked in zinc (e.g. ZnCl₂) or co-crystalized in the presence of zinc. The zinc ion is coordinated by Aspl68 (Oδ1, 2.1 Å), His170 (Nδ1, 2.1 Å), Asp258 (Oδ1, 1.9 Å) and a water molecule (2.5 Å). See Figure 5B and 6B. The amino acid residues that coordinate zinc are arranged in a tetrahedral geometry, but the position of the water molecule, which is also hydrogen bonded to His131, deviates from this geometry by ~25°.

In addition to the zinc ligands, the bottom of the pocket contains two histidine (Hisl31 and Hisl32), two aspartic acids (Asp166 and Asp173) and a tyrosine (Tyr297). See Figure 5B and 10B. Each of the histidines makes a hydrogen bond through its Nol to an aspartic acid carboxylate oxygen, with the oxygen located in the plane of the imidizole ring (Figure 5B). This His-Asp arrangement is characteristic of the charge relay system present in the active sites of serine proteases, where it serves to polarize the imidizole Ne and increase its basicity. Fersht & Sperling, 1973, J.

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Mol. Biol. <u>74</u>:137-149; Blow et al., 1969, Nature <u>221</u>:337-340.

The Asp166-His131 charge pair relay (hereafter referred to as "buried charged relay") is positioned even deeper in the pocket and more buried compared to the Asp173-His132 charge relay (hereafter referred to as "exposed charge relay") which is partially solvent exposed. The buried charge relay makes a hydrogen bond (2.6 Å) to the zinc-bound water molecule referred to above, and this hydrogen bond could contribute to the deviation of the water-zinc coordination from ideal geometry (Figure 5B). The exposed charge relay is directed to a point ~ 2.5 Å away from the water molecule and closer to the surface.

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Tyr 297 is positioned next to the zinc, opposite from where the two charge relay systems are located. The Tyr hydroxyl group lies 4.4 Å away from the zinc atom and has no interactions with the rest of the protein (Figure 5B). Next to Tyr297, there is an opening in the pocket wall, which leads to the adjacent internal cavity.

The floor of the internal cavity is made up of portions of the L3 and L7 loops as they emerge from the β strands, and the roof is made up by the $\alpha 1$ -L1- $\alpha 2$ segment. The L1 loop appears more flexible than other loops in the structure. This may allow the transient exchange of the cavity contents with the bulk solvent.

The cavity is lined primarily with hydrophobic residues and is particularly rich in glycine residues (Ala127, Gly128, Gly129, Met130, and Phe141 of L3; Gly293, Gly294, Gly295 and

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Gly296 of L7; and Tyr17, Pro22 and Leu23 of L1). There are only two charged residues in the cavity (Arg27 and His 21) and these are contributed by the L1 loop.

The cavity may provide space for the diffusion of the acetate product away from the catalytic center, which may otherwise be crowded and shielded during deacetylation from the solvent when the substrate is bound. Such a role for the cavity is supported by the observation that the cavity contains three water and two isopropanol molecules (from the crystallization buffer) in the 1.8 Å apo-protein structure. The cavity may also bind another cofactor, in addition to zinc, for the facilitation of the enzymatic activity of the HDLP. A proposed catalytic mechanism for deacetylation is provided in Figure 8.

The structure of HDLP as defined by the present invention, in conjunction with the HDAC1 sequence homology, shows that the 375-amino acid HDLP protein corresponds to the histone deacetylase catalytic core which is conserved across the HDAC family (see Figure 2). The 35.2% HDLP-HDAC1 sequence identity predicts structural similarity with a rmsd in Ca Chothia and Lesk describe the positions of ~ 1.5 Å. relation between the divergence of sequence and structure of proteins in Embo J. 5:823-826 (1986). The 40residue C-terminus of HDLP is likely to have a divergent structure since this region has lower homology to HDAC1, although the α 16 helix in this region is part of the conserved open α/β core fold and HDAC1 is likely to comprise a similar helix. However divergent this C-terminal region may be, this region is outside the active site and is likely to not effect the structure of the active site.

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C-terminus of the histone deacetylase catalytic core, HDAC family members are divergent in length and sequence. In the HDAC family, this region (amino acid residues ~390-482) is highly polar, populated with acidic residues, and is likely to be flexible or loosely folded.

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The HDLP-HDAC homology maps primarily to the hydrophobic core and to the L1-L7 loops, with portions of the loops that make up the pocket and adjacent cavity having the highest level of amino acid residue sequence conservation (Figure 9A and 9B). Specifically, all of the polar residues in the active site (the zinc ligands, the two charge relay systems, and Tyr297) and the hydrophobic residues that make up the walls of the pocket (Gly140, Phe141, Phe198 and Leu265) are identical. Among the residues that make up the internal cavity, the ones closest to the active site are either identical or conservatively substituted (for example, Leu23 → Met and Met130→ Leu). Surface residues around the pocket are conserved to a lesser extent, but are still above 35% average sequence identity.

The information obtained from the inhibitor-bound HDLP complex crystal structures of the present invention reveal detailed information which is useful in the design, isolation, screening and determination of potential inhibitor compounds which may inhibit HDLP/HDAC family members. As described above, the HDLP structure consists of a parallel β sheet with α helices packing against both faces (Figure 4A, 4B, and 4C). At one end of the β sheet, 7 loops (L1-L7) form a narrow, tube-like pocket which are lined with hydrophobic residues and which comprise a zinc binding site, several polar side chains, including two Asp-His charge

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relay systems. Mutation of the zinc ligands and other polar residues at the pocket bottom reduces or eliminates the catalytic activity.

The present inventors found that mutation at the Tyr297Phe site reduced activity. See also, Hassig et al., 1998, Proc. Natl. Acad. Sci. USA 95:3519-3524; Kadosh & Struhl, 1998, Genes Dev. 12:797-805. The elimination of activity by mutation of these residues indicates that this region is the enzyme active site. Adjacent to the active site, there is an internal cavity that may provide space for the diffusion of the acetate reaction product. Homology at the active site between HDLP and HDAC1, as described above, indicates that they share structural and functional homology.

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The inhibitor compound, trichostatin A (TSA) (Tsuji et al., 1976, J. Antibiotics 29:1-6) binds HDLP by inserting its long aliphatic chain, which has a hydroxamic acid group at one end, into the pocket (Figure 6A, 6B and 6C). aliphatic chain makes multiple contacts in the well-like, hydrophobic portion of the pocket. The hydroxamic acid reaches the polar bottom of the pocket, where it coordinates the zinc in a bidentate fashion and also forms hydrogen bonds with the polar residues in the active site, including the two charge relay system histidines. dimethylamino-phenyl group at the other end of the TSA chain makes contacts at the pocket entrance and serves to cap it. The amino acid residues of HDLP which contact TSA are conserved in HDAC, indicating that TSA binds and inhibits HDAC in a similar fashion to HDLP.

In the complex, the hydroxamic acid, most of the aliphatic chain and part of the dimethylamino-phenyl group of TSA are buried (60% of TSA's surface area; Figure 6A). The hydroxamic acid group binds the zinc in a bidentite fashion forming bonds through its carbonyl (2.4 Å) and hydroxyl groups (2.2 Å) resulting in a penta-coordinated Zn²⁺ (Figure 6B and 6C). The hydroxamic acid hydroxyl group replaces the water molecule that binds to the zinc in the apo-HDLP structure described above. The hydroxamic acid also hydrogen bonds with both charge relay system histidines (hydroxyl oxygen to His131 Ne2, 2.8 Å; and nitrogen to His132 Ne2, 2.8 Å), and the Tyr297 hydroxyl group (2.4 Å; Figure 6B and 6C).

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The 5-carbon long branched alkene chain of TSA fits snugly 15 in the narrow portion of the pocket making multiple van der Waals contacts with all of the hydrophobic groups lining the pocket (Figure 6B and 6C). Near its center, the chain contains a methyl substituted carbon-carbon double bond which is sandwiched between the phenyl groups of the Phe141 20 and Phe98 at the tightest point of the pocket (Figure 6A and The length of the alkene chain appears optimal for 6B). spanning the length of the pocket, and allowing contacts both at the bottom and at the entrance of the pocket, although, the cap group of Formula (I) may provide length to 25 span the pocket allowing for a shorter alkene chain (aliphatic chain).

At the entrance of the pocket, one face of the planar structure formed by the dimethylamino-phenyl and adjacent carbonyl groups of TSA makes contacts at the rim of the pocket (Pro22, Tyr91, Phe141; Figure 6B and 6C). This

packing is facilitated by the roughly 110° angle in the overall structure of TSA at the junction of the aliphatic chain and the dimethylamino-phenyl group (occurring at the sp³ hybridized C8 carbon). Upon TSA binding, the side chain of Tyr91, which is mostly solvent exposed, changes conformation to make space for the dimethylamino-phenyl group. This is the only change near the active site observed upon TSA binding.

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1.0 The hydroxamic acid group is a common motif in zinc metalloprotease inhibitors. See U.S. Patent No. 5,919,940 and 5,917,090; See also, Grams et al., 1995, Biochemistry 34:14012-14020; Lovejoy et al., 1999, Nat. Struct. Biol. 6:217-221; and Holmes & Matthews, 1981, Biochemistry 20:6912-6920. Like TSA, these inhibitors also coordinate 15 the active site zinc in a bidentate fashion using their hydroxamate hyroxyl and carbonyl oxygens, replace the nucleophilic water molecule with their hydroxamate hydroxyl groups and form hydrogen bonds to the general base (Grams et 20 al., 1995, Biochemistry 34:14012-14020; Lovejoy et al., 1999, Nat. Struct. Biol. 6:217-221; and Holmes & Matthews, 1981, Biochemistry 20:6912-6920).

SAHA, which has a ~30-fold weaker inhibitory activity than TSA (Richon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3003-3007), binds HDLP similarly to TSA (see, e.g., Figure 4D). The SAHA hydroxamic acid group makes the same contacts to the zinc and active site residues, and the importance of these interactions is underscored by the loss of activity of SAHA derivatives lacking the hydroxamic group (Richon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3003-

3007). The six-carbon long aliphatic chain of SAHA packs in the tube-like hydrophobic portion of the pocket. Compared to TSA however, SAHA's aliphatic chain packs less snugly and makes fewer van der waals contacts, in part, because SAHA lacks TSA's C15 methyl group branch. SAHA also lacks TSA's double bonds in this region, and this may lead to increased flexibility of the aliphatic chain. The cap group of SAHA consists of a phenyl-amino ketone group. In the crystal structure, the phenyl group has weak electron density, suggesting that it does not pack as well as the cap group of TSA. This may be due to the larger separation between the hydroxamic and cap groups of SAHA compared to TSA (compare TSA, Formula (III) and SAHA, Formula (III), below).

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25 (III)

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The determination of the structure of HDLP and HDLP bound to an inhibitory compound has enabled, for the first time, the identification of the active site of HDLP and of related HDLP proteins, such as proteins belonging to the HDAC family.

The three-dimensional structural information and the atomic coordinates associated with said structural information of HDLP bound to an inhibitory compound is useful in rational drug design providing for a method of identifying inhibitory compounds which bind to and inhibit the enzymatic activity of HDLP, HDAC family proteins and other histone deacetylaselike proteins related to HDLP. Said method for identifying potential inhibitor for an enzyme comprising deacetylase activity comprises the steps of (a) using a three-dimensional structure of HDLP as defined by its atomic coordinates listed in Figure 16 to 19; (b) employing said three-dimensional structure to design or select said potential inhibitor; (c) synthesizing said potential inhibitor; (d) contacting said potential inhibitor with said enzyme in the presence of an acetylated substrate; and (e) determining the ability of said inhibitor to inhibit said deacetylase activity.

The potential HDLP and HDLP-related (e.g. HDAC) inhibitors identified by the method of the present invention are represented by formula (I)

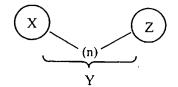
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(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of proline and leucine; Y comprises an aliphatic chain group which binds to at least one amino acid selected from the group consisting of leucine, phenylalanine and glycine; and Z comprises an active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and wherein Z may further bind to a zinc atom and with the provision that the compound of Formula (I) is not TSA, trapoxin, SAHA, SAHA derivatives described in U.S. Patent Nos. 5,608,108; 5,700,811; 5,773,474; 5840,960 and 5,668,179.

The present invention permits the use of molecular design techniques to design, identify and synthesize chemical entities and compounds, including inhibitory compounds, capable of binding to the active site of HDLP and HDLP-related proteins. The atomic coordinates of apo-HDLP and inhibitor-bound HDLP may be used in conjunction with computer modeling using a docking program such as GRAM, DOCK, HOOK or AUTODOCK (Dunbrack et al., 1997, Folding & Design 2:27-42) to identify potential inhibitors of HDLP and HDLP-related proteins (e.g. HDAC1). This procedure can include computer fitting of potential inhibitors to the active site of HDLP to ascertain how well the shape and the

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structure of the potential inhibitor complement the active site or to compare the potential inhibitors with the binding of TSA or SAHA in the active See Bugg et al, 1998, Scientific American December: 92-98; West et al., 1995, TIPS 16:67-74. potential inhibitors designed by modeling with a docking program conform to the general formula (I) as described Computer programs may also be employed to estimate above. the attraction, repulsion and stearic hindrance of the HDLP and potential inhibitor compound. Generally, the tighter the fit, the lower the stearic hindrances, the greater the attractive forces, and the greater the specificity which are important features for a specific inhibitory compound which is more likely to interact with HDLP and HDLP-related proteins rather than other classes of proteins. features are desired particularly where the inhibitory compound is a potential antitumor drug.

The compounds of the present invention may also be designed by visually inspecting the three-dimensional structure to determine more effective deacetylase inhibitors. This type of modeling may be referred to as "manual" drug design. Manual drug design may employ visual inspection and analysis using a graphics visualization program such as "O" (Jones, T.A., Zhou, J.Y., Cowan, S.W., and Kjeldgaard, M., Improved method for building protein models in electron density maps and the location of errors in these models, Acta Crystallog., A47, 110-119.

Initially potential inhibitor compounds can be selected for their structural similarity to the X, Y and Z constituents

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of formula (I) by manual drug design. The structural analog thus designed can then be modified by computer modeling programs to better define the most likely effective candidates. Reduction of the number of potential candidates is useful as it may not be possible to synthesize and screen a countless number of variations compounds that may have some similarity to known inhibitory molecules. analysis has been shown effective in the development of HIV protease inhibitors (Lam et al., 1994, Science 263:380-384; Wlodawer et al., 1993, Ann. Rev. Biochem. 62:543-585; Appelt, 1993 Perspectives in Drug Discovery and Design $\underline{1}:23$ -48; Erickson, 1993, Perspectives in Drug Discovery and Design 1:109-128. Alternatively, random screening of an small molecule library could lead to potential inhibitors whose inhibitory activity may then be analyzed by computer modeling as described above to better determine their effectiveness as inhibitors.

The compounds designed using the information of the present invention may be competitive or noncompetitive inhibitors. 20 These designed inhibitors may bind to all or a portion of the active site of HDLP and may be more potent, more specific, less toxic and more effective than known inhibitors for HDLP HDLP-related proteins, and and particularly HDACs. The designed inhibitors may also be less potent but have a longer half life in vivo and/or in vitro and therefore be more effective at inhibiting histone deacetylase activity in vivo and/or in vivo for prolonged periods of time. Said designed inhibitors are useful to inhibit the histone deacetylase activity of HDLP and HDLPrelated proteins (e.g. HDAC1), to inhibit cell growth in

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vitro and in vivo and may be particularly useful as antitumor agents.

The present invention also permits the use of molecular design techniques to computationally screen small molecule data bases for chemical entities or compounds that can bind to HDLP in a manner analogous to the TSA and SAHA as defined by the structure of the present invention. Such computational screening may identify various groups which may be defined as "X", "Y" or "Z" of formula (I) above and may be employed to synthesize the potential inhibitors of the present invention comprising formula potential inhibitors may be assayed for histone deacetylase inhibitory activity in a histone deacetylase activity assay (see Example 3 below), may be co-crystallized with HDLP to determine the binding characteristics through crystallography techniques defined above (e.g. said cocrystal structure may be determined by molecular replacement to assess the binding characteristics of said potential inhibitor), or may be assessed based on binding activity by incubating said potential inhibitor with said HDLP, performing gel filtration to separate any free potential inhibitor to HDLP-bound inhibitor, and determining the amount of histone deacetylase activity of the inhibitorbound HDLP. To measure binding constants (e.g., Kd), methods known to those in the art may be employed such as Biacore™ analysis, isothermal titration calorimetry, Elisa with a known drug on the plate to show competitive binding, or by a deacetylase activity assay.

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The design of potential inhibitors of the present invention is further facilitated by reference to Figure 9, which is a surface representation figure that depicts the surface grooves. Analysis of such grooves gives insight into the constituents of the cap group of formula (I). The surface grooves are labeled groove A, groove A', groove B and groove C, into which additional cap groups may bind. The structure of HDLP bound to either TSA or SAHA shows that the cap groups of TSA and SAHA bind in groove A. By analysis of the amino acid sequence identity of HDLP and HDACs, Groove A is well conserved in HDACs, has a significant hydrophobic component, appears deep enough to allow for significant interactions and is also the largest of the four grooves. In addition to the dimethylamino phenyl group of the TSA, the A groove can fit approximately 200 daltons worth of groups (e.g. groove A could accommodate a naphthalene-like group after an appropriate spacer, etc.). Groove A, as referred to herein, is characterized by the following conserved residues of HDLP: His 21, Pro22, Lys24, Phe141, Leu265 and Phe335. The periphery of groove A comprises unconserved residues. Additionally, Groove A', as referred to herein, comprises primarily unconserved residues.

Groove B is immediately adjacent to the pocket. Of significance is that the bottom of groove B comprises the N-epsilon nitrogen of His170, which coordinates the zinc through its N-delta nitrogen. Significant binding energy may be achieved by contacting the Ne proton of His170 with a carboxylic acid or sulfate group. In addition, groove B may be large enough to fit a phenyl group, the face of which may comprise a partial negative charge which may pack over the N-epsilon proton of His170. The conserved residues of

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groove B, as referred to herein are: His170, Tyr196 and Leu265.

Groove C is not as well conserved as the other two grooves and the amino acid residues which comprise groove C are mostly polar and solvent exposed. Groove C, as referred to herein comprises the following conserved residues: Asn87, Gly140 and Phe198.

The compounds of the present invention are represented by formula (I):

(I)

X (n) Z

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Examples for suitable X constituents wherein X comprises a cap group may be described in three categories, depending upon which surface of groove A, A', B and/or C they are targeted to. The cap group may comprise all three categories on the same compound. Of particular benefit may be replacing the cap group of TSA or SAHA with a large, rigid structure. Nonlimiting examples for suitable cap groups (X) of formula (I) which may bind in groove A are: (1) attaching a 1-3 methyl linker followed by a phenyl or naphthalene group from the para or meta position of SAHA's phenyl group represented by formula (IV):

(IV)

(2) attaching a 2-3 methyl linker followed by a phenyl or naphthalene group from the meta position of TSA's phenyl cap group, or from TSA's dimethyl amino group represented by formula (V):
(V)

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and which may bind in groove B is a 1-3 methyl group spacer followed by a carboxylate, sulfate or phenyl group as represented by formula (VI):

(VI)

With respect to the aliphatic (Y) group, the diameter of the pocket suggests that one more methyl "side chain" could fit, in addition to the C15 methyl group on the C10 carbon. Nonlimiting suitable examples for Y constituents wherein Y comprises an aliphatic chain group are as follows: (1) add

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a methyl group to TSA on the C12 carbon (with or without a methyl group on the C10 carbon and with or without double bonds and with or without substituting the X and/or Z constituents of formula (I)as represented by formula (VII):

5 (VII)

10 (2) add a methyl group to TSA on the C9 carbon (with or without a methyl group on the C10 carbon; with or without both or either of the double bonds, and with or without substituting the X and/or Z constituents of formula (I) as represented by formula (VIII):

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(VIII)

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(3) replace the two alkalene double bonds of TSA with only one between C10 and C11, which may free the C11 and C12 torsion to allow for a better fit, the X and/or Z groups may also be substituted as represented by formula (IX):

25 (IX)

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(4) cyclize C15 and C12 carbons of TSA through a sulphur atom (or nitrogen atom), the X and/or Z groups may also be substituted as represented by formula (X):

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(5) extend from the C9 carbon of TSA such that the extension approaches and/or enters groove B (see Figure 9); making C9 sp3 so that it can have some freedom; attach to C9 a 1-3 methyl group spacer which may include a double bond and they attaching thereto a sulfate, carboxylate, sulfate, hyroxyl, or phenyl group which may make an interaction with the N-epsilon proton of His170 which may coordinate the zinc atom as represented by formula (XI):

(XI)

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$$X = \begin{cases} 14 & (15) \\ 10 & (15) \\ 11 & (15) \\ 11 & (15) \\ 11 & (15) \\ 11 & (15) \\ 11 & (15) \\ 12 & (15) \\ 12 & (15) \\ 13 & (15) \\ 14 & (15) \\ 15 & (15) \\ 17 & (15)$$

25 (6) extend off the C8 carbon (replacing C14) of TSA such that the extension approaches or enters groove B; attach a 1-3 methyl group spacer (which may include a double bond) and then link thereto a carboxylate, sulfate, hydroxyl or phenyl group such that an interaction is made with the N-epsilon proton of His170 that coordinates the zinc atom; the X and/or Z constituents may also be substituted as represented by formula (XII):

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(XII)

(7) substitute the C8 carbon at the end of the aliphatic chain such that the substitution may contact groove A, A', B and or C, in such an example, a cap group (X) may or may not be required and the X and Z constituents may be substituted as well, as represented by formula (XIII):

(XIII)

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$$X$$
 $\begin{pmatrix} 0 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$
 $\begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 2 & 1 & 1 \end{pmatrix}$

(8) formulas VII through XIII above wherein the aliphatic chain further comprises a methyl group between the active site binding group (Z) and the C8 carbon, and preferably just before the C8 carbon, increasing the distance between X and Z, (9) make the connection between the aliphatic chain and the cap group more rigid (e.g., by closing a 6-membered ring which may or may not comprise oxygen, the X and Z group may also be substituted as represented by formula <math>(XIV):

(XIV)

and (10) combining two or more of the changes depicted by formulas (VII-XIV).

Additionally, nonlimiting examples for suitable Z groups wherein Z comprises an active site binding group are as follows: (1) hydroxamic acid, (2) carboxylic acid, (3) sulfonamide, (4) acetamide, (5) epoxyketone, (6) an ester with a methyl linker and a hydroxyl of acetate ester group to lead into the cavity and interact with a conserved arginine (Arg27) as represented by formula (XV): (XV)

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and (7) an alphaketone as represented by formula (XVI): (XVI)

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Additionally, other suitable X, Y and Z constituents may be envisioned by the skilled artisan given the threedimensional structural information of the present invention.

After having determined potential suitable X, Y and Z constituents, the constituents are combined to form a compound of formula (I) using combinatorial chemistry techniques. This may be achieved according to U.S. Patent 5,608,108; Nos. 5,700,811; 5,773,474; 5,840,960 5,668,179, incorporated herein by reference. Any methods

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known to one of skill in the art may be employed to synthesize compounds of formula (I) comprising X, Y and Z constituents as determined by the methods described above.

As mentioned above, the compounds of formula (I) are useful to inhibit the histone deacetylase activity of HDLP and HDAC-related proteins. Such inhibition may allow for a reduction or cessation of cell growth in vitro and in vivo.

10 For in vitro use, such reduction or cessation of cell growth is useful to study the role of histone deacetylation and differentiation during the cell cycle and also to study other mechanisms associated with cell cycle arrest and particularly how the repression of transcription is involved 15 in cell cycle progression which may be studies in a yeast model system such as that described by Kadosh & Struhl, 1998, Mol. Cell. Biol. <u>18</u>:5121-5127. In vitro model systems which may be employed to study the effects of potential inhibitors on cell cycle progression and also tumor growth 20 include those described by: Richon et al, 1998, Proc. Natl. Acad. Sci. USA 95:3003-3007; Yoshida et al., 1995, Bioessays 17:423-430; Kim et al., 1999, Oncogene 18:2461-2470; Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; and Yoshida et al., 1987, Cancer Res. 47:3688-3691.

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For in vivo use, such a reduction or cessation of cell growth is useful to study the effect of said inhibitor compounds in non-human animal model systems of cancer and is also useful for the treatment of cancer in a recipient in need of such treatment. Non-limiting examples of animals which may serve as non-human animal model systems include

mice, rats, rabbits, chickens, sheep, goats, cows, pigs, and non-human primates. See, e.g., Desai et al., 1999, Proc. AACR 40: abstract #2396; Cohen et al., 1999, Cancer Res., submitted. The compounds of the present invention may be administered to a transgenic non-human animal wherein said animal has developed cancer such as those animal models in which the animal has a propensity for developing cancer (e.g. animal model systems described in U.S. Patents 5,777,193, 5,811,634, 5,709,844, 5,698,764, and 5,550,316). Such animal model systems may allow for the determination of

toxicity and tumor reduction effectiveness of the compounds

of the present invention.

A preferred compound of the present invention may comprise high specific activity for HDLP and HDAC-related proteins, good bioavailability when administered orally, activity in reducing or ceasing cell growth in tumor cell lines, and activity in reducing or ceasing tumor growth in animal models of various cancers.

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Accordingly, another aspect of this invention is a method of eradicating or managing cancer in a recipient, which may be an animal and is preferably a human. Said method comprises administering to said recipient a tumor reducing amount of a compound as defined by formula (I) above, or a physiological acceptable salt thereof.

In a further aspect of the invention, there is provided a composition comprising the compound of formula (I) and an excipient or carrier. Administration of the foregoing agents may be local or systemic. Such carriers include any

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suitable physiological solutions or dispersant or the like. The physiologic solutions include any acceptable solution or dispersion media, such as saline, or buffered saline. The carrier may also include antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like. Except insofar as any conventional media, carrier or agent is incompatible with the active ingredient, its use in the compositions is contemplated.

Routes of administration for the compositions containing the delivery vehicle constructs of the present invention include any conventional and physiologically acceptable routes, such as, for example, oral, pulmonary, parenteral (intramuscular, intraperitoneal, intravenous (IV) or subcutaneous injection), inhalation (via a fine powder formulation or a fine mist), transdermal, nasal, vaginal, rectal, or sublingual routes of administration and can be formulated in dosage forms appropriate for each route of administration.

The following examples are provided to more clearly illustrate the aspects of the invention and are not intended to limit the scope of the invention.

EXAMPLES

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25 Example 1: Protein Production and Purification:

Full-length wild-type HDLP (Genbank accession number AE000719) was subcloned from an Aquifex aeolicus chromosomal DNA preparation (provided by Robert Huber of Universitaet of Regensburg, Germany) into the pGEX4T3 (Amersham-Pharmacia, Piscataway, NJ) vector using the polymerase chain reaction (PCR). The cysteine-to-serine and active site mutants were constructed by PCR site directed mutagenesis and were

sequenced. The HDLP-glutathione S-transferase (GST) fusion protein was produced in Escherichia coli, purified by affinity chromatography using a column of glutathione-sepharose resin (Amersham-Pharmacia, Piscataway, NJ), and by anion-exchange chromatography (Q-sepharose $^{\text{IM}}$; Amersham-Pharmacia, Piscataway, NJ). HDLP was cleaved from the fusion protein with thrombin at 4° C, was purified by anion-exchange (Q-sepharose™; Amersham-Pharmacia, Piscataway, NJ) and gel filtration chromatography (Superdex $^{\text{IM}}$ 200; Amersham-Pharmacia, Piscataway, NJ), and was concentrated to typically 25 mg/ml in a buffer of 25 mM $\,$ bis-tris propane (BTP), 500 mM NaCl, 5 mM dithiothrietiol (DTT), 2% isopropanol, pH 7.0.

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Although, it is not known what metal cofactor HDLP contains 15 in vivo, it is presumed to be zinc because of the arrangement of the ligands and the similarities in the active site to the zinc proteases. The lack of metal in the purified HDLP is presumed due, in part, to the use of DTT during purification. HDLP was reconstituted with Zn^{2+} by 20 mixing the Cys75Ser/Cys77Ser double mutant at 10 mg/ml with a 5-fold molar excess of ${\rm ZnCl_2}$ in a buffer of 25 mM bis-tris propane, 200 mM NaCl, 1% isopropanol, pH 7.0. Unbound ZnCl² was removed by fractionating HDLP through a G25 desalting 25 column (Amersham-Pharmacia, Piscataway, NJ). $\mbox{HDLP-Zn}^{2+}\mbox{-TSA}$ complex was prepared by incubating the \mbox{Zn}^{2+} reconstituted HDLP mutant with 1 mM TSA for 45 minutes, followed by gel filtration chromatography (Superdex™200; Amersham-Pharmacia, Piscataway, NJ) to remove excess TSA, 30 and concentration to typically 25 mg/ml in a buffer of 25 mM $\,$ bis-tris propane, 500 mM NaCl, 1% isopropanol, pH 7.0.

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FLAG epitope tagged human HDAC1 was overexpressed using a baculovirus expression system in Hi5 (Invitrogen, Carlsbad, CA) insect cells grown in suspension in serum-free media (Sf900, Gibco, Grand Island, NY). The fusion protein was purified by anion exchange and affinity chromatography using Anti-FLAG M2 affinity resin (Sigma, St. Louis, MO) and FLAG Peptide (Sigma,, St. Louis, MO).

Example 2: Crystallization and data collection:

10 Crystals of apo-HDLP were grown at room temperature by the hanging-drop vapor-diffusion method, from 7.5% isopropanol, 28% PEG 1500, 425 mM NaCl, 100 mM Tris-Cl, pH 7.0. They form in space group C2 with a = 51.4 Å, b = 93.8 Å, c = 78.7 Å, β = 96.9 Å, and contain one HDLP molecule in the asymmetric unit. Diffraction data were collected with crystals flash-frozen in a buffer of 7.5% isopropanol, 35% PEG 1500, 75 mM NaCl, 100 mM Tris-Cl, pH 8.0, at -170° C.

The structure of the HDLP- Zn²⁺ complex was determined from HDLP Cys75Ser/Cys77Ser double mutant crystals grown from 23% tert-butanol, 27% PEG 1500, 400 mM KCl, 100 mM bis-tris propane-Cl, pH 6.8. Space group and cell dimensions were identical to the apocrystals. The HDLP-Zn²⁺ crystals were harvested and frozen in 27% tert-butanol, 22% PEG 1500, 50 mM KCl, 20 mM NaCl, 0.2 mM ZnCl₂, 100 mM bis-tris propane, pH 6.8, at -170° C.

Crystals of the HDLP-Zn²⁺-TSA complex comprised HDLP Cys75Ser/Cys77Ser double mutant and were grown from 23% tert-butanol, 27% PEG 1500, 600 mM KCl, 100 mM bis-tris propane-Cl, pH 6.8, by microseeding. The crystals were grown in the presence of zinc. They form in space group

P2₁2₁2₁ with a = 53.4 Å, b = 94.4 Å, c = 156.3 Å and contain two HDLP- Zn^{2+} -TSA complexes in the asymmetric unit. The HDLP- Zn^{2+} -TSA crystals were harvested and frozen in the same cryobuffer as the HDLP- Zn^{2+} crystals except that 0.5mM TSA was added. Data were processed with DENZO and SCALEPACK (Otwinowski & Minor, 1997, Method. Ensemble. 276:307-326). MIR analysis, model building and refinement.

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The HDLP-Zn²⁺-SAHA complex crystals were grown and evaluated the same as the HDLP-Zn²⁺-TSA crystals. However, the restraints for the SAHA structure were constructed based on stereochemical parameters from TSA. Like the apo-HDLP crystals, the SAHA/HDLP co-crystals grew in space group C2.

Heavy-atom soaks were performed with the apo-HDLP crystals 15 in a buffer of 7.5% isopropanol, 30% PEG 1500, 75 mM NaCl, 100 mM Tris-Cl, pH 8.0, supplemented with 1.0 mM thimerosal for 2h, 5 mM $KAu(CN)_2$ for 1h, and 1 mM $Pb(Me)_3OAc$ for 2h. MIR phases were calculated with the program MLPHARE (The CCP4 suite: Programs for computational crystallography, 20 1994, Acta Crystallogr. D <u>50</u>:760-763) at 2.5 Å using the anomalous diffraction signal from the thimerosal derivative, and had a mean figure of merit of 0.55. The phases were improved by solvent flattening with the program DM (The CCP4 suite: Programs for computational crystallography, 1994, 25 Acta Crystallogr. D 50:760-763) , and were used to build the initial model with the program O (Jones et al., 1991, Acta Crystallogr. A 47:110-109). Successive rounds of rebuilding and simulated annealing refinement with the program CNS (Brunger et al., 1998, Acta Crystallogr. D 30 54:905-921) allowed interpretation of HDLP from residues 2

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to 373. Residues 1, 374, and 375 were not modeled and are presumed to be disordered.

The structure of the HDLP-Zn2+-TSA and HDLP-Zn2+-SAHA complex were determined by molecular replacement with the program AMORE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D 50:760-763) using the apo-HDLP structure as a search model. electron density maps had strong and continuous difference density for the entire TSA molecule. However the SAHA molecule was not as well ordered in the cap group region. The structure of TSA was obtained from the Cambridge Structural Database (Refcode TRCHST) and was used to define stereochemical restraints used in the refinement with the program CNS. The restraints of SAHA were constructed based on stereochemical parameters from TSA and surrounding amino acid residues. The dimer interface in the HDLP-Zn²⁺-TSA and HDLP-Zn2+-SAHA crystals primarily involves Phe200 on the protein surface. The Phe200 side chain contacts Tyr91, whose side chain conformation changes on TSA binding, and part of the dimethyl amino phenyl group of TSA from the second protomer. The HDAC family does not contain a phenylalanine residue at the equivalent position.

25 <u>Example 3: Histone deacetylase assays</u>:

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Purified proteins were assayed by incubating 10 μ g of [³H]acetyl-labeled murine erythroleukemia histone substrate and HDAC assay buffer (20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol) for 30-60 minutes at 37° C in a total volume of 30 μ l. The final concentrations of HDLP and HDACl-FLAG were 3.6 μ M and 0.24 μ M, respectively. Assays were performed in duplicate. The reactions were stopped and the

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released acetate was extracted and assayed as described (Hendzel et al., 1991, J.~Biol.~Chem.~266:21936-21942). [3H] acetyl-labeled murine erythroleukemia histones were prepared essentially as described (Carmen et al., 1996, J.~Biol.~Chem.~271:15837-15844). Inhibitors were added in the absence of substrate and incubated on ice for 20 minutes, substrate was added, and the assay performed as described above. HDLP was inclubated with 20 μ M ZnCl₂ and 20 μ M MnCl₂(H2O)₄ in HDAC buffer and tested for activity.

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Only HDLP dialyzed against $\rm ZnCl_2$ had activity. HDAC1-FLAG was dialyzed against 20 μM $\rm ZnCl_2$ in HDAC buffer which had no effect on activity. Therefore, HDAC1-FLAG contains a metal as purified.

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The *in vivo* substrate of HDLP is not known. HDLP may have a role in acetoin utilization like the *B. subtilis* AcuC gene product, and it has been annotated as such in the genome sequence, but the reaction catalyzed by AcuC is also not known. Furthermore, the *A. aeolicus* genome appears to lack the acuA and acuB genes that are part of the acuABC operon of B. subtilis (Deckert et al., 1998 Nature 392:353-358), and HDLP is as similar to human HDAC1 (35.2 % identity) as it is to B. subtilis AcuC (34.7 % identity).

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What is claimed is:

- 1. A crystal of an enzyme comprising deacetylase activity wherein said crystal effectively diffracts X-rays for the determination of the atomic coordinates of said enzyme to a resolution of greater than 4 Å and wherein the structure of said enzyme comprises a conserved core α/β structure characteristic fold wherein said conserved α/β fold comprises an eight-stranded parallel β sheet and eight α helices and wherein four of the helices pack on either face of said parallel β sheet and wherein said structure of said enzyme comprises an rmsd of less than or equal to 1.5 Å in the positions of C α atoms for at least 2/3 or more of the amino acids of HDLP as defined by the atomic coordinates of HDLP.
 - 2. The crystal of claim 1, wherein said protein structure further comprises:
 - (a) eight α helices positioned near one side of the β sheet; and
 - (b) at least seven large, well defined loops originating from the C-terminal ends of the β -strands of said eight-stranded parallel β sheet wherein the eight extra helices and the seven large loops are associated with a significant extension of the structure beyond the core α/β motif and wherein said extension of the structure gives rise to a deep, narrow pocket and an internal cavity adjacent to the pocket.

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3. The crystal of claim 1, wherein said enzyme comprising deacetylase activity is selected from the group

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consisting of HDLP, HDLP-related proteins, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC-related proteins, APAH, AcuC, and functional derivatives thereof.

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- 4. The crystal of claim 2 further comprising a specifically bound zinc atom in the active site of said enzyme.
- 5. The crystal of claim 2 further comprising a specifically bound deacetylase inhibitor compound in the active site of said enzyme.
- 6. The crystal of claim 2 define by the atomic coordinates according to Figure 16.
 - 7. A method for identifying a potential deacetylase inhibitor compound for an enzyme which comprises deacetylase activity, said method comprising the steps of:
 - a. using a three-dimensional structure of HDLP as defined by atomic coordinates according to Figure 16;
 - b. employing said three-dimensional structure to design or select said potential inhibitor;
 - c. synthesizing said potential inhibitor;
 - d. contacting said potential inhibitor with said enzyme in the presence of an acetylated substrate; and
- e. determining the deacetylase inhibitory activity of said potential inhibitor.

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- 8. The method of claim 7, wherein the three-dimensional structure is designed or selected using computer modeling.
- 5 9. The method of claim 7, wherein the potential deacetylase inhibitor is designed de novo.
- 10. The method of claim 7, wherein the potential deacetylase inhibitor is designed based on a known inhibitor.
- 11. The method of claim 7, wherein said enzyme comprising deacetylase activity is selected from the group consisting of HDLP, HDLP-related proteins, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC-related proteins, APAH, and AcuC.
- 12. A method of evaluating the binding properties of the potential deacetylase inhibitor compound comprising the steps of:

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- a. co-crystallizing said compound with HDLP;
- b. determining the three-dimensional structure of said HDLP-potential inhibitor complex co-crystal by molecular replacement using the threedimensional structure of HDLP as defined by atomic coordinates according to Figure 16; and
- c. analyzing said three-dimensional structure of said HDLP bound to said potential inhibitor compound to evaluate the binding characteristics of said potential inhibitor compound.
- 13. A method for solving the structure of an HDAC family

member crystal comprising the steps of:

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- a. collecting X-ray diffraction data of said crystal wherein said data diffracts to a high resolution limit of greater than 4 Å;
- b. using the atomic coordinates of HDLP accoding to Figure 16 to perform molecular replacement or refinement and difference fourier with said X-ray diffraction data of said HDAC family member crystal to determine the structure of said HDAC family member; and
- c. refining said structure of said HDAC family member.
- 14. The method of claim 13, wherein said HDAC family member
 15 is HDAC1.
 - 15. A Cys75Ser/Cys77Ser double mutant of HDLP wherein said mutant is encoded by the nucleic acid sequence of SEQ ID NO:4.
 - 16. A Cys75Ser/Cys77Ser double mutant of HDLP wherein said mutant has the amino acid sequence of SEQ ID NO:3.
 - 17. A nucleotide sequence according to SEQ ID NO:4
 - 18. An expression vector comprising the nucleotide sequence of claim 17.
- 19. A method of using the crystal of claim 1 for screening30 for a novel drug comprising:
 - a. selecting a potential ligand by performing

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rational drug design with the three-dimensional structure determined for the crystal;

contacting the potential ligand with the ligand
 binding domain of the crystal; and

c. detecting the binding potential of the potential ligand for the ligand binding domain, wherein the novel drug is selected based on its having a greater affinity for the ligand binding domain than that of a known drug.

Statistics from the crystallographic analysis

TABLE 1.

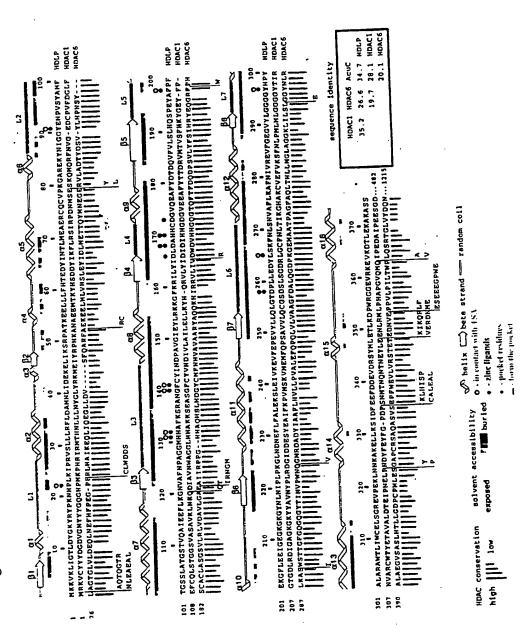
1/263

	2 P2,2,2, 0 2.1 769 180,427 343 50,796 .6 93.8 2 7.1	
AuCN Zn	C2 C2 2.8 2.0 27,722 125,769 8,753 23,643 94.3 90.6 8.9 7.2 1.10 -	H-free bonds (%) (Å) 24.0 0.010 25.8 0.009
Pb /	C2 3.5 11,454 2 4,040 8 86.4 9.6 1.24 0.78	R-factor (%) 19.8 22.0
thimerosal	C2 2.3 79,023 15,958 95.7 8.4 1.47 0.72 0.92	al Water ms atoms 14 228 24 434
Native	C2 1.8 134,952 32,143 92.3 92.3 2.9	Reflections Total (IFI > 10) atoms 31,550 3214 23,582 3424 44,122 6475
,	Space Group Resolution (Å) Observations Unique reflections Data coverage (%) Rsym (%) MIR analysis (20.0-2.5 Å) phasing power Rcullis (ano) Refinement statistics:	solution (Å) 1.8 2.0
Data set	Space Group Resolution (A) Observations Unique reflections Data coverage (%) R_{sym} (%) MIR analysis (20.0-2) phasing power Rcullis (ano)	Data Re Set HDLP HDLP-Zn HDLP-Zn-TSA

Rcullis is the mean residual lack of closure error divided by the dispersive difference. R-factor = $\Sigma |F_{obs}$ -F_{calc}l/ΣίF_{obs}l, where F_{obs} and F_{calc} are the observed and calculated structure factors, respectively. Figure of merit = IF(hkl)best[/F(hkl). R-free = R-factor calculated using 5% of the reflection data chosen randomly and omitted from the start of refinement. RMSD: root mean square deviations from ideal geometry and root Rsym = $\Sigma h \Sigma_i$ Ifh,i-<|h|>/ $\Sigma_h \Sigma_i$ Ih,i for the intensity (I) of i observations of reflection h. Phasing power = < $F_{\lambda i}$ >/E, where <F_{\li}>is the root-mean-square heavy atom structure factor and E is the residual lack of closure error. mean square variation in the B-factor of bonded atoms.

Figure 1

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igure 2

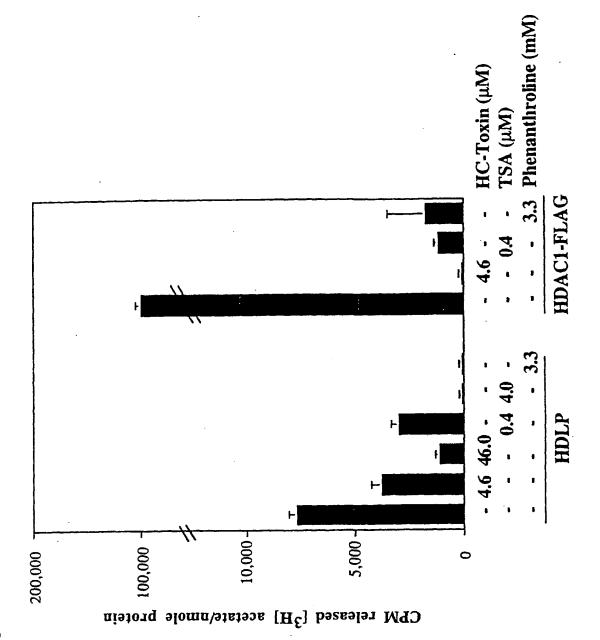
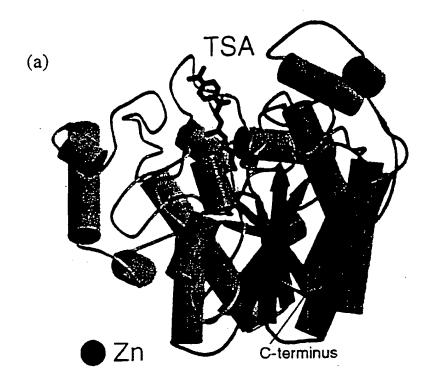


Figure 3

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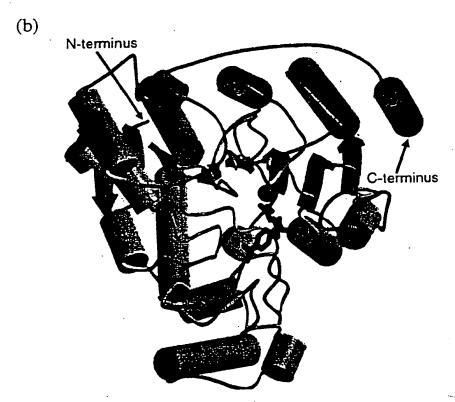


Figure 4

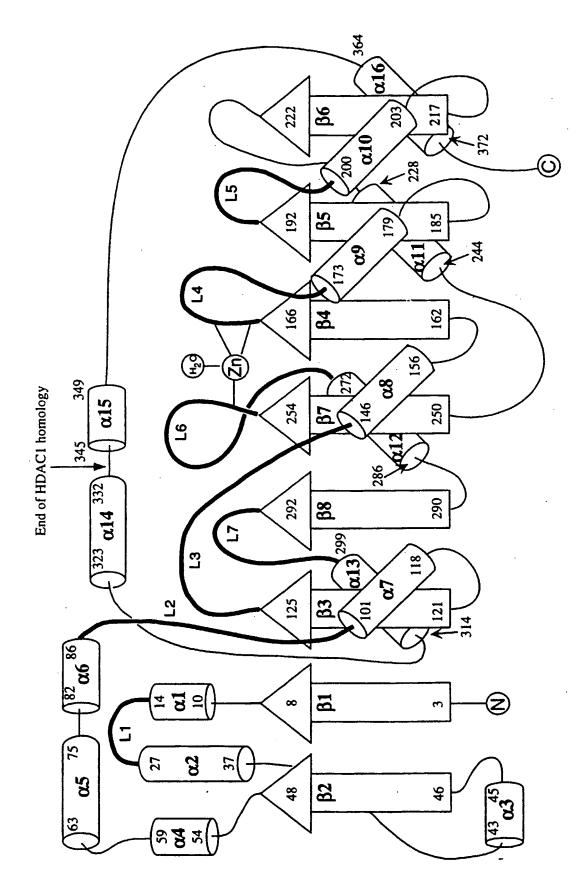


Figure 4c

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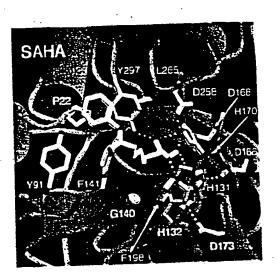
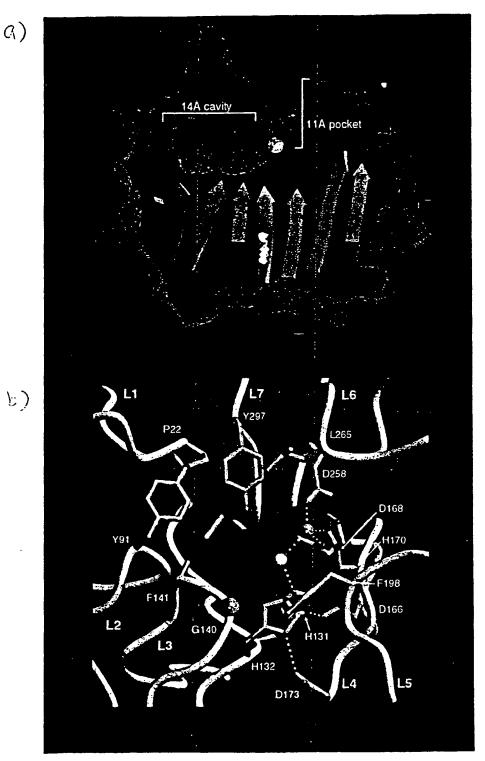


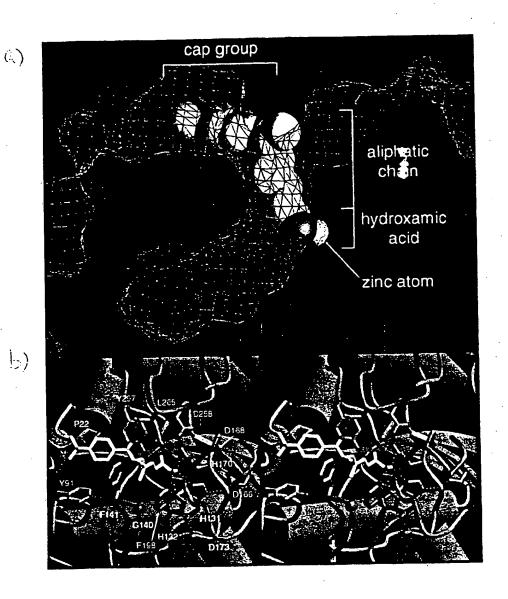
Figure 4D

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Figure 6



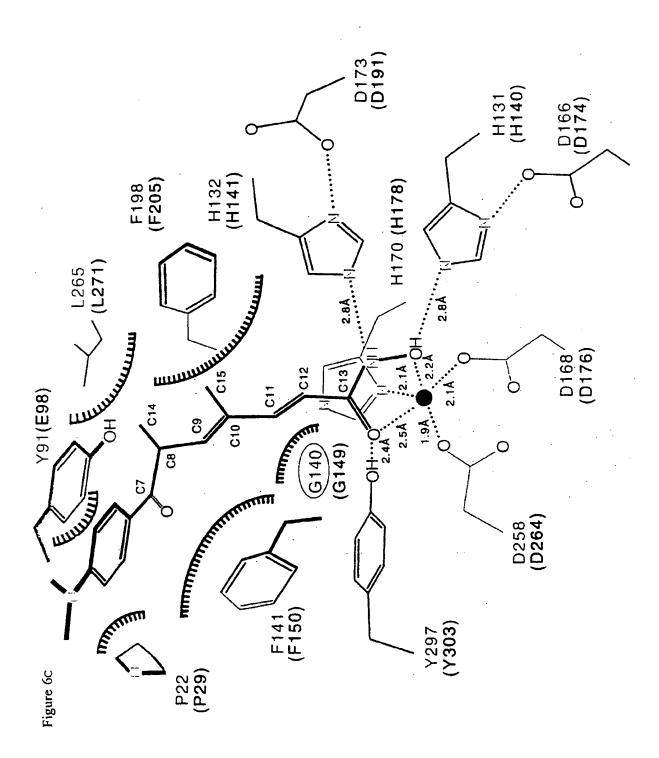
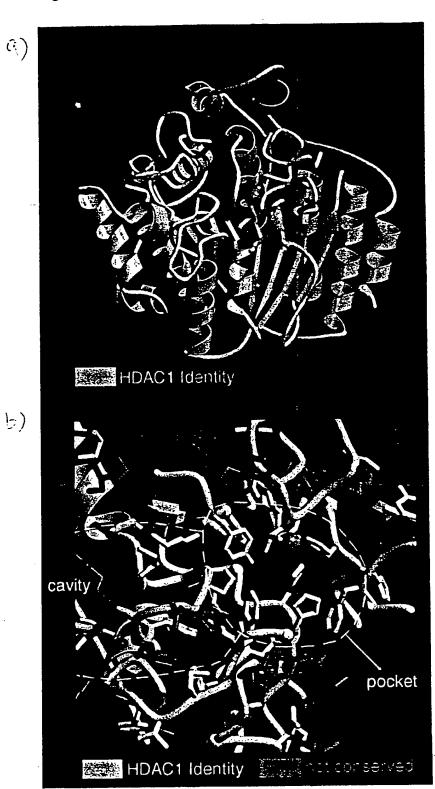
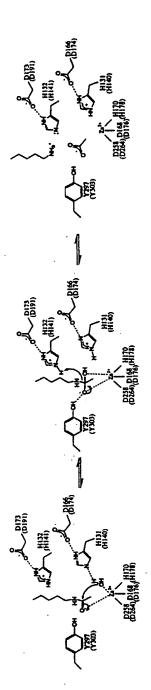


Figure 7





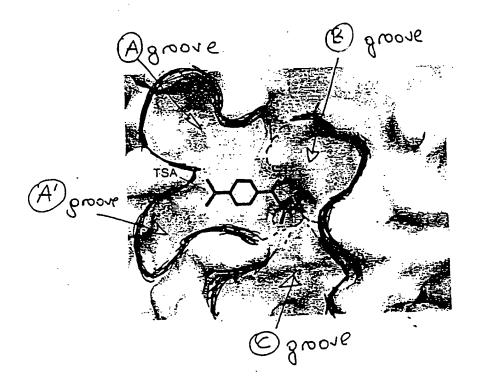


Figure 9

10 20 30 40	
ATGAAGAAGGTTAAACTTATCGGAACTTTAGACTACGGAA	4 0
AGTACAGATATCCCAAAAACCATCCTCTTAAAATACCAAG	80
AGTITCCCTACTCCTTAGGTTTTTAGATGCCATGAACCTT	120
ATAGATGAGAAGGAATTAATCAAGAGCAGACCCGCAACTA	160
AAGAAGAACTCCTTTTATTCCACACGGAAGACTACATAAA	200
210 220 230 240	
<u> </u>	
CACTITIAATGGAAGCGGAAAGGTGTCAGTGCGTTCCGAAG	240
GGAGCTAGGGAAAAGTACAACATAGGCGGATACGAAAACC	280
CCGTATCTTACCCGATGTTTACAGGCTCTTCTCTCCCAAC	320
GGTTCAACAGTGCAGGCGATAGAGGAATTTTTAAAGGGA	360
AATGTAGCTTTCAATCCCGCGGGAGGTATGCACCACGCTT	400
410 420 430 440	'
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
TTAAAAGCAGGCCAAACGGCTTTTGCTACATAAACGACCC	440
CCCTGTCCGAATTGAGTACTTGAGAAAAAAACCCTTTAAG	480
AGAATACTCTACATAGACCTTGATGCCCACCACTGCGACG	520
GIGTTCAGGAAGCCTTTTACGATACAGACCAGGIGTTCGT	560
CCTGTCCCTTCACCAGTCGCCCGAGTACGCCTTTCCCTTT	600
610 620 630 640)
	
GAGAAGGCTTCCTGGAGGAGATAGGAGAAGGAAAAGGAA	640
AGGGCTACAACCTGAACATTCCCCTGCCAAAGGGCTTGAA	680
CGACAACGAGTTCCTCTTTGCCCTAGAAAAATCTCTGGAA	720
ATAGTCAAAGAAGTATTTGAGCCCGAGGTTTACCTTCTTC	760
AACTCGGAACTGACCCACTCCTTGAAGATTACCTTTCCAA	800
810 820 830 840)
<u> </u>	
GTTCAACCTCTCAAACGTTGCCTTTTTAAAAGCTTTCAAC	840
ATCGITCGTGAGGITTTCGGGGGGGGGGTATACCTCGGAG	880
GAGGCGGATACCATCCTTACGCCCTCGCAAGGGCATGGAC	920
CCTAATCTGGTGCGAGCTTTCGGGAAGGGAAGTGCCGGAA	960
AAGCTAAACAATAAAGCAAAAGAGCTTTTAAAGAGTATAG	1000
1010 1020 1030 104	
	0
	0
ACTTIGAAGAGITIGACGACGAGGIGGACCGCTCGTACAT	0 1040
ACTTIGAAGAGITTIGACGACGACGIGGACCGCTCGTACAT	1040 1080

	10	20	30	40	
سلسب	ليسلس	تتبليب	سلسلس	لستبيا	
MKKVKL	IGTLDY G KYI	RYPKNHPLK	IPRVSLLLR	LDAMNL	40
IDEKEL	IKSRPATKE	ELLLFHTED	YINTLMEAE	RCQCVPK	80
GAREKY	VIGGYENPV:	SYAMFIGSS	LATGSTVQA	EEFLKG	120
NVAFNPA	AGGMHHAFK!	SRANGFCYI	NOPAVGIEYI	RKKGFK	160
RILYIDI	LDAHHCDGV	QEAFYDI'DQ	VFVLSLHQSI	PEYAFPF	200
	210	220	230	240)
			230)
	لينتيل	ستلس		لسبل	
EKGFLEI	EIGEGKGKG	YNLNIPLPK	Ludu	LEKSLE	240
EKGFLEF IVKEVFF	EIGEGKGKG EPEVYLLQL	YNLNIPLPK GIDPLLEDY	GLNDNEFLFA	LLLL LEKSLE FLKAFN	240 280
EKGFLEI IVKEVFI IVREVFO	EIGEGKGKG EPEVYLLQLO EEGVYLOOO	YNLNIPLPK GIDPLLEDY GYHPYALAR	GLNINEFLF? LSKFNLSNV?	LLEKSLE AFLKAFN GREVPE	240 280 320

10	20	30	40
	uliiiliii		
ATGAAGAAGGITA			
AGTACAGATATCC			
AGITICCCIACIC			
ATAGATGAGAAOC			
AAGAAGAACTCCT			
210	220	230	240
<u> </u>		<u> </u>	
CACTITAATGGAA	GCGGAAAGGTG	TCAGTGCGTT	CCGAAG 240
GGAGCTAGGGAAA			
CCGTATCTTACCC			
GGGTTCAACAGTG	CAGGCGATAGA	GGAATTTTTA	
AATGTAGCTTTCA	ATCCCGCGGGA	GGTATGCACC	ACGCTT 400
410	420	430	440
سلسلسلسب	سيلسب	Lullun	لبييا
TTAAAAGCAGGCC	AAACGGCTTTT	GCTACATAAA	CGACCC 440
CGCTGTGGGAATT	GAGTACTTGAG	AAAAAAAGGC	TTTAAG 480
AGAATACTCTACA'	TAGACCTTGATO	3CCCACCACTY	30GACG 520
GIGITCAGGAAGO	CTTTTACGATA	CAGACCAGGIY	Fricgr 560
CCTGTCCCTTCAC	CAGICGCCCGAC	STACGCCTTT	CCTTT 600
610	620	630	640
	سيسسي	Liuliu	بالتسا
GAGAAGGCTTCC.	TGGAGGAGATA(3GAGAAGGAA	AAGGAA 640
		rgccaaaggg	
CGACAACGAGTTCC			
ATAGTCAAAGAAG			
AACTCGGAACTGAC	CCACICCIIGA	VAGATTACCT	MICCAA 800
810	820	830	840
mulmulm.	Luuluul	استاسيا	
GITCAACCTCTCAA	ACGITGCCTTT	TAAAAGCTT	ICAAC 840
ATCGTTCGTGAGGT			
GAGGCGGATTCCATC	CTTACGCCCTC	GCAAGGGCA!	NGGAC 920
CCTAATCTGGTGCGA			
AAGCTAAACAATAAA	AGCAAAAGAGCT	TTTAAAGAG	TATAG 1000
1010	1020	1030	1040
استلسلسل	<u> </u>		سسل
ACTTIGAAGAGTTIG			
GCTCGAAACCCTAAA	GGACCCCTGGA	GAGGAGGAGA	AGGTA 1080
AGGAAAGAAGTAAAG	GATACGCTTGA	AAAGGCGAAA	GCCT 1120
CATCITA 1127			•

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	10	20	30	40	
بالبيب	سيبلين	Lillia	سلسب	لبسبا	
MKKVKL	IGTLDYGK	YRYPKNHPLK	IPRVSLLLR	FLDAMNL	40
IDEKEL	[KSRPATK	EELLLFHTED	YINILMEAE	RCQCVPK	80
GAREKYI	VIGGYENP	VSYAMFTGSS	LATGSTVQA	IEEFLKG	120
NVAFNPA	AGGMHHAF	KSRANGFCYI	NDPAVGIEY.	LRKKGFK	160
RILYIDI	LDAHHCDG	VQEAFYDIDQ	VFVLSLHQS	PEYAFPF	200
	210	220	230	240)
<u> </u>	<u>سيبلين</u>	بيبليين	سلست	لمستل	
EKGFLE	EIGEGKGK	GYNLNIPLPK	GLNDNEFLF	ALEKSLE	240
IVKEVF	EPEVYLLQ	LGTDPLLEDY	LSKFNLSNV	AFLKAFN	280
IVREVE	GEGVYLGG	GGFHPYALAR	AWILIWCEL	SGREVPE	320
KLNNKA	KELLKSID	FEEFDDEVDF	SYMLETLKD	PWRGGEV	360

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10			
10	20	30	40
700770770			11111
ATGAAGAAGGTTA			
AGTACAGATATCC			
AGITICCCTACTC			
ATAGATGAGAAGG			
AAGAAGAACTCCT	TITATICCACA	CGGAAGACT	ACATAAA 200
210	220	230	240
	سالسلب		
CACTITAATGGAA			
GGAGCTAGGGAAA			
	GATGTTTACAG		
GGGITCAACAGIG			
AATGTAGCTTTCA	ATCCCGCGGGA	GGTATGCACC	ACCOTT 400
410	420	430	440
سيلسيست	بليسليس	Lulli	Luul
TTAAAAGCAGGGC	VAACGGCTTTTI	CTACATAAA	CGACCC 440
CGCTGTGGGAATTC	GAGTACTTGAG	AAAAAAAAGGC	TITAAG 480
AGAATACTCTACAT	AGACCTIGATO	CCCACCACT	GCGACG 520
GIGITCAGGAAGCC	TTTTACGATAC	CAGACCAGGI	GIICGI 560
CCIGICCCTICACC	'AGTCGCCCGA(TACGCCTTT	CCCTTT 600
610	620	630	640
سياسياسي	لنبيليينا	<u> </u>	Luul
GAGAAGGCTTCCT	GGAGGAGATAC	GAGAAGGAA	AAGGAA 640
AGGGCTACAACCTG	AACATTCCCCT	GCCAAAGGG	CTTGAA 680
CGACAACGAGTTCC	TCTTTGCCCTA	GAAAAATCT	TIGGAA 720
ATAGTCAAAGAAGT.	ATTIGAGCCCG	AGGITTACC	FICINC 760
AACTCGGAACTGAC	CCACTCCTTGA	AGATTACCT.	ITCCAA 800
810	020	55.6	_
610 	820 Laaalaan	830	840
ATTOTOTOTOTO			
ATCGTTCGTGAGGT			
GAGGCGGATACCATC			
CCTAATCTGGTGCG			
AAGCTAAACAATAAA			FIATAG 1000
1010	1020	1030	1040
ACTION			
ACTITIGAAGAGITTIG	ALGACGAGGT(3GACCGCTCG	TACAT 1040
GCTCGAAACCCTAAA	GGALCCCTGG	AGAGGAGGAG	AGGTA 1080
AGGAAAGAAGTAAAG	GATACGCTTG	VAAAGGCGAA	AGCCT 1120
CATCTTA 1127		•	

	10	20	30	40	*
سلسسا	ليسلب	بيبليين	Luli	ليبيل	
MKKVKLI	GTLDYGKY	RYPKNHPLK	IPRVSLLLRE	TLDAMNI	40
IDEKELI	KSRPATKE	ELLLFHIED	YINII MEAEF	RSOSVPK	80
GAREKYN	IIGGYENPV	SYAMFIGSS	LATGSTVOAI	EEFLKG	120
NVAFNPA	GGMHHAFK	SRANGFCYII	NDPAVGIEYL	RKKGFK	160
RILYIDI	DAHHCDGV	QEAFYDIDQ	VFVLSLHQSF	EYAFPF	200
	210		230	240	
سلسد	ستسلب	lin	سيليين	ر. اربيا	,
			JLNDNEFLFA		
IVKEVFE	PEVYLLQLA	GTDPLLEDYI	SKFNLSNVA	FLKAFN	280
IVREVFG	EGVYLGGG	GYHPYALARA	WILIWCELS	GREVPE	320
KLNNKAK	ELLKSIDFI	EEFDDEVDRS	YMLETLKDP	WRGGEV	
	LEKAKASS				550

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			Residue	# X			-	
ATOM	-	CE ALA	2	45.336	Y 35.880	Z TE.342	OCC. B	Segment ID
ATOM	2	C ALA	2	46.413	38.631	73.528	1.10 59.90 1.00 52.87	AAAA
ATOM	3		2	45.780	39.595	74.052	1.00 53.57	AAAA
ATOM	4		2	47.540	37.826	75.673	1.00 58.82	AAAA
ATOM	5		2	46.568	37.432	74.527	1.00 57.32	AAAA
ATOM	6		3	46.390	38.570	72.389	1.00 39:61	AAAA
ATOM	7	CA LYS	3	46.527	39.669	-1.440	1.35 29.58	AAAA
ATOM	8		3	47.855	39.763	73.459	1.00 36.03	aaaa aaaa
ATCM	9	CG LYS	. 3	49.217	40.007	71.102	1 70 85 15	AAAA
ATOM	10		3	50.315	40.000	70.039	1.00 66.28	AAAA
ATOM	11	CE LYS	3	51.700	40.163	70.655	1.00 65.28 1.00 73.41 1.00 69.64	hhhh
atom	12	NZ LYS	3	52.791	40.047	69.642	1.10 69.64	ÄÄÄÄ
ATOM	13	C LYS	3	45.407	39.422	70.642	1.30 23.29	٨٨٨٨
ATOM	14	o LYS	3	44.984	38.282	~).487	1.50 23.29	AAAA
ATOM	15	N VAL	4	44.814	40.498	70.138	1.30 15.18	ል ሕል _ት
ATOM ATOM	16 17	CA VAL	1	43.595	40.418	69.349	1.30 00.20	አ ልልኡ
ATOM	18	CB VAL CG1 VAL	1 4	42.501	41.365		1.00 31.46	شككش
ATOM	19	CG2 VAL	1	41.214	41.202		1.00 26.85	ሕ ሕ ሕሕ
ATOM	20	C VAL	4	43.983	40.851	71.348 67.951	1.00 34.98 1.00 25.33	AAAA
ATCM	21	O TAL	4	44.557	41.927	67.778	1.30 15.33 1.30 11.19	AAAA
ATOM	22	N LYS	5	43.654	40.023	66.978	1.00 21.19	AAAA
ATOM	23	CA LYS	5	44.052	40.291	65.607	1.30 20.10	AAAA AAAA
ATOM	24	CE LYS	5	45.347	39.214	65.177	1.00 23.35	AAAA
ATOM	25	CG LYS	5	46.301	39.092	65.049	1.00 20.10 1.00 23.35 1.00 23.75 1.00 23.70	AAAA
ATOM	26	CD LYS	5 5	47.183	40.334	65.919	1.00 23.75	AAAA
ATOM	27	CE LYS	5	48.510	40.151	£5.669	1.39 24.34	AAAA
atom atom	28 29	NZ LYS C LYS	5 5	49.351	41.387	66.585	1.10 12.04	AAAA
ATOM	30	0 LYS	5	42.914 41.949	40.294	64.596	1.30 22.27	nnin.
ATOM	31	N LEU	6	43.071	39.535 41.111	64.728	1.00 18.48	AAAA
ATOM	32	CA LEU	6	42.097	41.156	63.564 62.483	1.00 19.28	aaaa
ATOM	33	CB LEU	6	41.571	42.574	62.291	1.00 23.51	AAAA
ATOM	34	CG LEU	6	40.373	42.712	51.342	1.30 30.59	AAAA AAAA
ATOM	35	CD1 LEU	6	40.079	44.192	51.153	1.00 19.90	ሕሕሕ ሕ
ATOM	36	CDG LEU	5	40.557	42.085	59.995	2.00 33.98	AAAA
ATOM	37	C LEU	6	42.964	40.701	51.237	1.00 18.17	AAAA
ATOM ATOM	38 39	D LEU N TLE	ó ;	43.911	41.249	50.919	نذ ت سند 🔾 د د د	aaaa
ATOM	40	CA ILE	<u>.</u>	42.359 43.045	39.689	50.538	1.00 19.15	
ATOM	41	CE CLE	,	42.922	39.199 37.674	59.338 59.191		AAAA
ATOM	42	IGO ILE	-	43.930	37.162	53.144	1.30 19.05 1.30 16.45	à n hà
ATOM	÷ 3	SSI TLE	-	43.283	37.007	50.521	1.00 10.03	aaaa aaaa
ATOM	44	CD1 ILE	-	43.296	35.543	50.450	1.00 12.81	AAAA
ATOM	45	ILE -	-	42.396	39.850	58.125	1.00 17.95	in a second
ATCM	46	C TLE	?	41.138	39.729	57.928	1.30 19.07	กักกัก
ATOM	47	:: GLY	9	43.193	40.552	57.330	1,00 17,70	AAAA
ATOM ATOM		· CA JLY	9	42.523			1.30 18.11	ನನಿಸಿನ
ATOM	49 50	C GLY	3	43.640	41.857	55.243	1.00 20.91	anne.
ATOM	51	I THR	9 3	44.849 43.134	41.840	55.504	1.00 33.27	AAAA
ATOM	52	CA THR	9	43.250		54.155 53.183	1.30 23.99 1.30 25.95	ääää
ATOM	53	CE THR	ý	44.739		52.263	1.30 25.30	à à àà
ATOM	54	IGI THR	غ و	45.321	42.962	51.199	1.30 25.56	AAAA
ATOM	55	CG2 THR	9	43.823		51.557	1.30 25.24	aaaa aaaa
ATOM	56	I THR	à	43.025		52.294	1.00 19.04	AAA
ATOM	57	C THR C THR C LEU	9	41.872		52.082	1.00 03.05	AAA
ATOM	58	:: LEU	10	43.517	45.079	E1.781	1.30 29.19	AAA
ATCM	59	CA LEU	10	42.690	45.396	50.895	1.30 32.55	AAA
ATCM	50	SE LEU	10	43.256		50.761	1.00 28.09	AAAJ
ATOM	61 63	IG LEU	10	43.142		51.958	1.00 33.00	AAA.
ATOM	62 63	CCC LEU	10 10	41.280		52.347	1.00 26.65	200
atom atom	63 64	C LEU	10	43.938 42.566	47.744	53.126	1.00 41.33	AAA
ATOM	65	: LEU	10	41.736	45.261 45.684	49.512	1.00 32.68	AAA
ATOM	56	: ASP	11	43.377		48.702 49.256	1.30 28.97	āàā.
						-	20 ~23	in him

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MOTA	67	CA	ASP	11	43.367	43.541	47.970	1.00 35.74	AAAA
				11	44.477	42.485	47.922	1.00 37.61	AAAA
MOTA	68	CB	ASP						
MOTA	69	ÇG	ASP	11	45.858	43.093	48.079	1.00 46.75	AAAA
ATOM	70	OD1	ASP	11	46.110	44.136	47.444	1.00 46.34	AAAA
			ASP	11	46.690	42.528	48.821	1.00 58.94	AAAA
MOTA	71								
MOTA	72	C	ASP	11	42.034	42.898	47.607	1.00 34.26	AAAA
ATOM	73	0	ASP	11	41.748	42.696	46.420	1.00 31.12	AAAA
					41.220	42.558	48.609	1.00 26.19	AAAA
MOTA	74	N	TYR	12					
MOTA	. 75	CA	TYR	12	39.923	41.963	48.314	1.00 28.45	AAAA
ATOM	76	CB	TYR	12	39.119	41.720	49.601	1.00 29.35	AAAA
								1.00 28.47	
MOTA	7 7	CG	TYR	12	39.648	40.595	50.470		AAAA
MOTA	78	CD1	TYR	. 12	40.137	40.846	51.755	1.00 32.17	AAAA
	79	CE1		12	40.592	39.808	52.572	1.00 30.35	AAAA
MOTA								1.00 22.97	AAAA
MOTA	80	CD2	TYR	12	39.629	39.276	50.017		
MOTA	81	CE2	TYR	12	40.077	38.228	50.822	1.00 19.60	AAAA
	82	CZ	TYR	12	40.554	38.499	52.096	1.00 21.42	AAAA
MOTA								1.00 23.49	AAAA
MOTA	83	OH	TYR	12	40.964	37.456	52.907		
MOTA	84	С	TYR	12	39.144	42.907	47.390	1.00 26.67	AAAA
ATOM	85	0	TYR	12	38.307	42.466	46.593	1.00 30.51	AAAA
				13	39.441	44.201	47.492	1.00 30.22	AAAA
MOTA	86	N	GLY						
ATOM	87	CA	GLY	13	38.767	45.203	46.675	1.00 25.13	AAAA
MOTA	88	С	GLY	13	38.911	45.009	45.177	1.00 27.31	AAAA
					38.096	45.522	44.415	1.00 29.38	AAAA
MOTA	89	0	GLY	13					
ATOM	90	N	LYS	14	39.937	44.269	44.755	1.00 33.56	AAAA
ATOM	91	CA	LYS	14	40.176	44.005	43.337	1.00 39.81	AAAA
			LYS	14	41.680	44.026	43.031	1.00 51.10	AAAA
MOTA	92	CB							
MOTA	93	CG	LYS	14	42.292	45.424	42.907	1.00 64.99	AAAA
MOTA	94	CD	LYS	14	41.757	46.218	41.692	1.00 72.74	AAAA
	95	CE	LYS	14	42.183	45.639	40.336	1.00 67.25	AAAA
MOTA								1.00 70.06	AAAA
MOTA	96	NZ	LYS	14	41.637	44.280	40.045		
ATOM	97	С	LYS	14	39.589	42.688	42.834	1.00 39.98	AAAA
	98	0	LYS	14	39.746	42.350	41.658	1.00 46.99	AAAA
MOTA								1.00 32.64	AAAA
MOTA	99	N	TYR	15	38.927	41.944	43.717		
ATOM	100	CA	TYR	15	38.318	40.655	43.355	1.00 41.01	AAAA
ATOM	101	CB	TYR	15	38.996	39.512	44.126	1.00 26.48	AAAA
				15	40.496	39.571	44.033	1.00 34.97	AAAA
MOTA	102	CG	TYR						
ATOM	103	CD1	TYR	15	41.289	39.401	45.167	1.00 43.28	AAAA
MOTA	104	CE1	TYR	15	42.677	39.548	45.106	1.00 36.05	AAAA
	105	CD2	TYR	15	41.127	39.879	42.827	1.00 40.78	AAAA
MOTA								1.00 37.13	AAAA
MOTA	106	CE2	TYR	15	42.508	40.027	42.756		
MOTA	107	CZ	TYR	15	43.275	39.865	43.899	1.00 36.87	AAAA
ATOM	108	OH	TYR	15	44.644	40.044	43.844	1.00 35.40	AAAA
					36.838	40.705	43.714	1.00 38.62	AAAA
MOTA	109	С	TYR	15					
MOTA	110	0	TYR	15	36.344	39.868	44.468	1.00 37.82	AAAA
ATOM	111	N	ARG	16	36.141	41.703	43.177	1.00 44.85	AAAA
				16	34.716	41.890	43.431	1.00 45.75	AAAA
MOTA	112	CA	ARG						
MOTA	113	CB	ARG	16	34.320	43.348	43.187	1.00 54.17	AAAA
ATOM	114	CG	ARG	16	35.170	44.399	43.875	1.00 66.77	AAAA
	115	CD	ARG	16	34.920	44.506	45.369	1.00 72.39	AAAA
MOTA							45.923	1.00 85.39	AAAA
ATOM	116	NE	ARG	16	35.649	45.646			
ATOM	117	cz	ARG	16	35.489	46.906	45.518	1.00 81.94	AAAA
MOTA	118		ARG	16	34.624	47.197	44.554	1.00 80.19	AAAA
						47.878	46.069	1.00 85.46	AAAA
MOTA	119	NH2	ARG	16	36.205				
ATOM	120	С	ARG	16	33.915	41.029	42.460	1.00 43.50	AAAA
	121	ō	ARG	16	34.400	40.667	41.385	1.00 38.62	AAAA
MOTA					32.689	40.692	42.833	1.00 32.68	AAAA
MOTA	122	N	TYR	17					
ATOM	123	CA	TYR	17	31.850	39.923	41.930	1.00 37.55	AAAA
ATOM	124	CB	TYR	17	30.662	39.306	42.672	1.00 41.05	AAAA
					31.040	38.104	43.519.		AAAA
ATOM	125	CG	TYR	17					
ATOM	126	CD1	TYR	17	32.039	38.194	44.493	1.00 32.59	AAAA
ATOM	127	CE1		17	32.383	37.095	45.277	1.00 29.32	AAAA
				17	30.393	36.875	43.346	1.00 31.46	AAAA
ATOM	128	CD2							AAAA
ATOM	129	CE2	TYR	17	30.726	35.772	44.122	1.00 28.64	
ATOM	130	CZ	TYR	17	31.721	35.887	45.088	1.00 27.14	АААА
		ОН	TYR	17	32.044	34.807	45.881	1.00 21.73	AAAA
ATOM	131						40.836	1.00 40.97	AAAA
ATOM	132	С	TYR	17	31.380	40.871	#U.036	1.00 40.37	irman
							•		•

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ATCM	133	0	TYR	17	31.435	42.097	40.984	1.00 29.58	AAAA
ATCM	134	N	PPO	18	30.904	40.321	39.722	1.00 41.02	AAAA
ATOM	135	CD	PRO	18	30.760	38.910	39.318	1.00 48.67	AAAA
					30.459	41.197	38.649	1.00 49.35	AAAA
MOTA	136	CA	PRO	18					
ATOM	137	CB	PRO	18	30.321	40.228	37.481	1.00 59.04	AAAA
					29.756		38.179	1.00 54.15	AAAA
ATOM	138	CG	PRO	18		39:017			
ATOM	139	С	PRO	18	29.178	41.982	38.864	1.00 54.97	AAAA
			_			41.823	39.850	1.00 46.85	AAAA
ATOM	140	0	PRO	18	28.457				
MOTA	141	N	LYS	19	28.961	42.868	37.904	1.00 60.87	AAAA
					27.777	43.696	37.749	1.00 67.78	AAAA
ATOM	142	CA	LYS	19					
ATOM	143	CB	LYS	19 -	27.155	43.278	36.425	1.00 73.26	AAAA
-		~~	LYS	19	26.971	41.752	36.414	1.00 77.87	AAAA
ATOM	144	CG							
ATOM	145	CD	LYS	19	26.276	41.166	35.209	1.00 81.01	AAAA
MOTA	146	CE	LYS	19	26.039	39.680	35.471	1.00 82.45	AAAA
ATOM	147	NZ	LYS	19	25.417	38.959	34.331	1.00 83.11	AAAA
MOTA	148	С	LYS	19	26.688	43.594	38.814-	1.00 64.15	AAAA
							39.949	1.00 65.73	AAAA
MOTA	149	0	LYS	19	26.810	44.047			
ATOM	150	N	ASN	20	25.604	42.986	38.345	1.00 59.78	AAAA
	151	CA	ASN	20	24.353	42.703	39.025	1.00 59.91	AAAA
ATCM									
ATOM	152	CB	ASN	20	23.516	41.844	38.077	1.00 68.08	AAAA
ATOM	153	CG	ASN	20	22.108	42.355	37.907	1.00 78.73	AAAA
									AAAA
MOTA	154	OD1	ASN	20	21.894	43.498	37.496	1.00 78.67	
ATOM	155	ND2	ASN	20	21.132	41.505	38.211	1.00 83.22	AAAA
					24.474	41.977	40.361	1.00 53.35	AAAA
ATOM	156	С	ASN	20					
ATCM	157	0	ASN	20	23.611	42.112	41.234	1.00 59.92	AAAA
			HIS	21	25.543	41.206	40.511	1.00 44.23	AAAA
ATOM	158	N							
ATOM	159	CA	HIS	21	25.768	40.397	41.707	1.00 28.15	AAAA
	160	CB	HIS	21	27.088	39.639	41.570	1.00 31.84	. AAAA
ATOM									
MCTA	161	CG	HIS	21	27.155	38.411	42.418	1.00 34.79	AAAA
ATOM T	162	CD2	HIS	21	27.344	38.259	43.752	1.00 25.03	AAAA
					26.929	37.148	41.917	1.00 34.81	AAAA
ATOM	163		HIS	21					
ATOM	164	CE1	HIS	21	26.979	36.269	42.900	1.00 17.01	AAAA
	165		HIS	21	27.228	36.917	44.026	1.00 32.31	AAAA
ATOM									
ATOM	166	С	HIS	21	25.763	41.135	43.051	1.00 29.37	AAAA
ATOM	167	0	HIS	.21	26.346	42.210	43.186	1.00 28.54	AAAA
						40.565	44.066	1.00 29.14	AAAA
ATOM	168	N	PRO	22	25.093				
ATOM	169	CD	PRO	22	24.301	39.322	44.061	1.00 31.20	AAAA
	170	CA	PRO	22	25.034	41.185	45.395	1.00 32.84	AAAA
ATOM									
ATOM	171	CB	PRO	22	24.174	40.192	46.187	1.00 34.98	AAAA
ATOM	172	CG	PRO	22	23.257	39.634	45.109	1.00 30.11	AAAA
							46.044	1.00 34.37	AAAA
ATOM	173	С	PRO	2 2	26.411	41.415			
ATOM	174	0	PRO	22	26.554	42.272	46.916	1.00 29.17	AAAA
	175	N	LEU	23	27.415	40.644	45.629	1.00 29.22	AAAA
ATOM									
ATOM	176	CA	LEU	23	28.765	40.781	46.181	1.00 26.49	AAAA
ATOM	177	CB	LEU	23	29.414	39.397	46.332	1.00 22.30	AAAA
				23	28.703	38.527	47.380	1.00 21.04	AAAA
ATOM	178	CG	LEU	43	20.703	30.321	47.500		
ATOM	179	CD1	LEU	23	29.307	37.113	47.410	1.00 19.35	AAAA
	180		LEU	23	28.850	39.197	48.746	1.00 26.51	AAAA
ATOM									
ATOM	181	C	LEU	23	29.561	41.718	45.361	1.00 25.81	AAAA
ATOM	182	C	LEU	23	30.893	41.693	45.477	1.00 28.45	AAAA
					29.018	42.539	44.532	1.00 24.86	AAAA
ATOM	183	N	LYS	24					
ATOM	184	CA	LYS	24	29.696	43.552	43.723	1.00 27.35	AAAA
		CB	LYS	24	28.662	44.244	42.830	1.00 28.57	AAAA
ATOM	185								
ATOM	186	CG	LYS	24	29.118	45.532	42.171	1.00 52.95	AAAA
ATOM	187	CD	LYS	24	28.025	46.603	42.283	1.00 63.74	AAAA
								1.00 66.09	AAAA
ATOM	188	CE	LYS	24	26.688	46.138	41.706		
ATOM	189	NZ	LYS	24	25.595	47.137	41.896	1.00 66.00	AAAA
				24	30.332	44.592	44.676	1.00 29.52	AAAA
ATOM	190	C	LYS						
ATOM	191	0	LYS	24	31.412	45.123	44.420	1.00 30.67	AAAA
	192	Ŋ	ILE	25	29.652	44.879	45.779	1.00 26.90	AAAA
ATOM									AAAA
ATOM	193	CA	ILE	25	30.151	45.865	46.738	1.00 25.02	
ATOM	194	CB	ILE	25	29.105	46.177	47.824	1.00 28.34	AAAA
					27.961	46.951	47.237	1.00 23.84	AAAA
atom	195		ILE	25					
ATOM	196	CG1	ILE	25	28.661	44.869	48.495	1.00 30.31	AAAA
			ILE	25	27.718	45.051	49.660	1.00 44.90	AAAA
ATOM	197								AAAA
ATOM	198	С	ILE	25	31.424	45.463	47.483	1.00 32.19	MAMA
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Figure 16-4

					•				
MOTA	199	0	ILE	25	31.736	44.271	47.623	1.00 26.54	AAAA
ATOM	200	N	PRO	26	32.191	46.463	47.956	1.00 30.14	AAAA
ATOM	201	CD	PRO	26	31.9 79	47.907	47.770	1.00 36.38	AAAA
ATOM	202	CA	PRO	26	33.431	46.241	48.707	1.00 30.63	AAAA
MOTA	203	CB	PRO	26	34.014	47.652	48.814	1.00 34.29	AAAA
ATOM -	204	CG	PRO	26	33.397	48.373	47.617	1.00 43.39	AAAA
MOTA	205	С	PRO	26	32.943	45.727	50.061	1.00 25.99	AAAA
ATOM	206	0	PRO	26	31.854	46.110	50.484	1.00 25.51	ÀAAA
MOTA	207	N	ARG	27	33.719	44.880	50.743	1.00 21.98	AAAA
MOTA	208	CA	ARG	27	33.267	44.347	52.C35	1.00 26.17	AAAA
ATOM	209	CB	ARG	27	32.641	42.969	51.834	1.00 22.70	AAAA
MOTA	210	CG	ARG	27	31.442	43.039	50.890	1.00 26.75	AAAA -
				_	30.832	41.672	50.581		
ATÒM	211	CD	ARG	27					AAAA
MOTA	212	NE	ARG	27	30.121	41.098	51.716	1.00 28.66	AAAA
MOTA	213	CZ	ARG	27	30.582	40.129	52.503	1.00 31.79	AAAA
MOTA	214	NH1	ARG	27	31.778	39.598	52.290	1.00 34.08	AAAA -
	215	NH2	ARG	27	29.833	39.688	53.505	1.00 26.16	AAAA
MOTA									
ATOM	216	С	ARG	27	34.358	44.297	53.090	1.00 24.10	AAAA
ATOM	217	0	ARG	27	34.326	45.074	54.038	1.00 23.50	AAAA
MOTA	218	N	VAL	28	35.314	43.390	52.960	1.00 21.45	AAAA
ATOM	219	CA	VAL	28	36.385	43.385	53.953	1.00 21.75	AAAA
ATOM	220	CB	VAL	28	37.221	42.101	53.866	1.00 26.55	AAAA
MOTA	221	CG1	VAL	28	38.407	42.177	54.830	1.00 23.84	aaaa
MOTA	222	CG2	VAL	28	36.337	40.906	54.214	1.00 19.20	AAAA
ATOM	223	С	VAL	28	37.277	44.611	53.736	1.00 20.86	AAAA
					37.770		54.702	1.00 25.15	
ATOM	224	0	VAL	28		45.223			AAAA
ATOM	225	N	SER	29	37.480	44.996	52.475	1.00 19.22	aaaa
ATOM	226	CA	SER	29	38.320	46.169	52.209	1.00 19.63	AAAA
ATOM	227	CB	SER	29	38.591	46.352	50.702	1.00 24.45	AAAA
	228	0G	SER	29	37.411	46.697	49.984	1.00 28.74	AAAA
ATOM									
ATOM	229	С	SER	29	37.579	47.381	52.756	1.00 21.50	AAAA
MOTA	230	0	SER	29	38.184	48.320	53.271	1.00 18.95	AAAA
MOTA	231	N	LEU	30	36,256	47.353	52.673	1.00 19.56	AAAA
ATOM	232	CA	LEU	30	35.499	48.481	53.177	1.00 25.97	AAAA
					34.032	48.396	52.744	1.00 22.90	AAAA
ATOM	233	CB	LEU	30					
MOTA	234	CG	LEU	30	33.085	49.541	53.157	1.00 26.62	AAAA
MOTA	235	CD1	LEU	30	32.885	49.539	54.648	1.00 38.27	AAAA
ATOM	236	CD2	LEU	30	33.653	50.885	52.698	1.00 25.71	AAAA
ATOM	237	C	LEU	30	35.604	48.509	54.696	1.00 18.44	AAAA
									AAAA
ATOM .	238	0	LEU	30	35.704	49.580	55.273	1.00 25.05	
MOTA	239	N	LEU	31	35.578	47.336	55.336	1.00 19.65	AAAA
MOTA	240	CA	LEU	31	35.672	47.270	56.797	1.00 20.47	aaaa
ATOM	241	CB	LEU	31	35.613	45.821	57.300	1.00 20.60	AAAA
	242	CG	LEU	31	34.988	45.456	58.665	1.00 39.80	AAAA
MOTA							-		
ATOM	243		LEU	31	35.712	44.219	59.257	1.00 23.99	AAAA
MOTA	244	CD2	LEU	31	35.085	46.591	59.637	1.00 28.48	AAAA
MOTA	245	С	LEU	31	37.009	47.870	57.229	1.00 23.85	AAAA
ATOM	246	0	LEU	31	37.070	48.673	58.154	1.00 21.24	AAAA
			LEU	32	38.079	47.462	56.562	1.00 23.91	AAAA
ATOM	247	Ŋ							
ATOM	248	CA	LEU	32	39.400	47.965	56.899	1.00 24.82	AAAA
MOTA	349	CB	LEU	32	40.479	47.320	56.018	1.00 24.81	AAAA
ATOM	250	CG	LEU	32	40.849	45.854	56.276	1.00 27.00	AAAA
			LEU	32	41.995	45.435	55.354	1.00 27.13	AAAA
MOTA	251								
MOTA	252		LEU	32	41.285	45.687	57.720	1.00 34.49	AAAA
MOTA	253	С	LEU	32	39.466	49.475	56.763	1.00 19.56	AAAA
ATOM	254	0	LEU	32	39.958	50.143	57.662	1.00 20.71	AAAA
MOTA	255	N	ARG	33	38.974	50.006	55.645	1.00 23.25	AAAA
					39.007	51.449	55.441	1.00 24.33	AAAA
ATOM		· CA	ARG	33					
MOTA	257	CB	ARG	33	38.575	51.806	54.013	1.00 23.46	AAAA
ATOM	358	CG	ARG	33	39.571	51.327	52.945	1.00 26.94	AAAA.
ATOM	259	CD	ARG	33	39.337	51.976	51.585	1.00 42.13	AAAA
				33	38.023	51.661	51.037	1.00 59.06	AAAA
MOTA	260	NE	ARG						
ATOM	261	CZ	ARG	33	37.583	52.088	49.857	1.00 60.87	AAAA
MOTA	362	NH1	ARG	33	38.353	52.850	49.095	1.00 65.33	AAAA
ATOM	263	NH2	ARG	33	36.373	51.743	49.433	1.00 56.24	aaaa
	264	C	ARG	33	38.124	52.156	56.455	1.00 30.33	AAAA
MOTA	~ 0 4	_	, 4,4						

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ATOM 266 N PHE 34 37.022 51.514 56.828 1.00 24.98 ATOM 267 CA PHE 34 36.099 52.085 57.789 1.00 27.09 ATOM 268 CB PHE 34 34.798 51.276 57.807 1.00 24.88 ATOM 269 CG PHE 34 33.719 51.898 58.631 1.00 20.46 ATOM 270 CD1 PHE 34 33.043 53.018 58.171 1.00 18.74 ATOM 271 CD2 PHE 34 33.396 51.383 59.889 1.00 20.19 ATOM 272 CE1 PHE 34 32.043 53.627 58.956 1.00 23.04 ATOM 273 CE2 PHE 34 32.406 51.974 60.681 1.00 25.08 ATOM 274 CZ PHE 34 31.726 53.104 60.209 1.00 23.31 ATOM 275 C PHE 34 36.709 52.115 59.194 1.00 23.93 ATOM 276 O PHE 34 36.709 52.115 59.194 1.00 23.93 ATOM 277 N LYS 35 37.298 51.013 59.645 1.00 21.71 ATOM 277 N LYS 35 37.862 51.084 60.978 1.00 21.71 ATOM 279 CB LYS 35 37.862 51.084 60.978 1.00 22.54 ATOM 280 CG LYS 35 37.082 48.890 61.924 1.00 29.48 ATOM 281 CD LYS 35 37.082 48.890 61.924 1.00 29.48 ATOM 283 NZ LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 283 NZ LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 284 C LYS 35 39.272 52.055 61.040 1.00 24.68 ATOM 285 O LYS 35 39.282 52.640 62.085 1.00 22.33 ATOM 284 C LYS 35 39.282 52.640 62.085 1.00 22.33 ATOM 286 N ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92	AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA
ATOM 266 N PHE 34 37.022 51.514 56.828 1.00 24.98 ATOM 267 CA PHE 34 36.099 52.085 57.789 1.00 27.09 ATOM 268 CB PHE 34 34.798 51.276 57.807 1.00 24.88 ATOM 269 CG PHE 34 33.043 53.018 58.171 1.00 18.74 ATOM 271 CD2 PHE 34 33.396 51.383 59.889 1.00 20.19 ATOM 272 CE1 PHE 34 32.043 53.627 58.956 1.00 23.04 ATOM 273 CE2 PHE 34 32.406 51.974 60.681 1.00 25.08 ATOM 274 CZ PHE 34 31.726 53.104 60.209 1.00 23.31 ATOM 275 C PHE 34 36.709 52.115 59.194 1.00 23.93 ATOM 276 O PHE 34 36.668 53.138 59.883 1.00 21.71 ATOM 277 N LYS 35 37.298 51.013 59.645 1.00 21.33 ATOM 278 CA LYS 35 37.862 51.084 60.978 1.00 22.54 ATOM 279 CB LYS 35 37.862 51.084 60.978 1.00 29.70 ATOM 280 CG LYS 35 37.082 48.890 61.924 1.00 29.48 ATOM 281 CD LYS 35 37.082 48.890 61.924 1.00 29.48 ATOM 283 NZ LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 284 C LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 285 O LYS 35 39.282 52.640 62.085 1.00 22.33 ATOM 284 C LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 285 O LYS 35 39.282 52.640 62.085 1.00 22.33 ATOM 286 N ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 287 CA ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92	AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA
ATOM 267 CA PHE 34 36.099 52.085 57.789 1.00 27.09 ATOM 268 CB PHE 34 34.798 51.276 57.807 1.00 24.88 ATOM 269 CG PHE 34 33.719 51.898 58.631 1.00 20.46 ATOM 270 CD1 PHE 34 33.043 53.018 58.171 1.00 18.74 ATOM 271 CD2 PHE 34 32.043 53.018 58.171 1.00 120.19 ATOM 272 CE1 PHE 34 32.043 53.627 58.956 1.00 23.04 ATOM 273 CE2 PHE 34 32.043 53.627 58.956 1.00 23.04 ATOM 274 CZ PHE 34 31.726 53.104 60.209 1.00 23.31 ATOM 275 C PHE 34 36.709 52.115 59.194 1.00 23.93 ATOM 276 O PHE 34 36.668 53.138 59.883 1.00 21.71 ATOM 277 N LYS 35 37.298 51.013 59.645 1.00 21.33 ATOM 278 CA LYS 35 37.862 51.084 60.978 1.00 22.54 ATOM 279 CB LYS 35 37.862 51.084 60.978 1.00 22.54 ATOM 280 CG LYS 35 37.082 48.890 61.924 1.00 29.70 ATOM 281 CD LYS 35 37.517 47.535 62.398 1.00 42.17 ATOM 282 CE LYS 35 38.276 49.716 61.476 1.00 29.48 ATOM 283 NZ LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 284 C LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 285 O LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 286 N ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 32.266 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 289 CG ASP 36 42.881 53.914 58.572 1.00 33.92 ATOM 2	AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA
ATOM 268 CB PHE 34 34.798 51.276 57.807 1.00 24.88 ATOM 269 CG PHE 34 33.719 51.898 58.631 1.00 20.46 ATOM 270 CD1 PHE 34 33.043 53.018 58.171 1.00 18.74 ATOM 271 CD2 PHE 34 32.043 53.627 58.956 1.00 23.04 ATOM 273 CE2 PHE 34 32.406 51.974 60.681 1.00 25.08 ATOM 274 CZ PHE 34 32.406 51.974 60.681 1.00 25.08 ATOM 275 C PHE 34 36.709 52.115 59.194 1.00 23.93 ATOM 276 O PHE 34 36.668 53.138 59.883 1.00 21.71 ATOM 277 N LYS 35 37.298 51.013 59.645 1.00 21.33 ATOM 278 CA LYS 35 37.862 51.084 60.978 1.00 22.54 ATOM 279 CB LYS 35 37.862 51.084 60.978 1.00 22.54 ATOM 280 CG LYS 35 37.082 48.890 61.924 1.00 29.48 ATOM 281 CD LYS 35 37.517 47.535 62.398 1.00 42.17 ATOM 282 CE LYS 35 37.517 47.535 62.398 1.00 42.17 ATOM 283 NZ LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 284 C LYS 35 39.372 47.412 60.719 1.00 67.18 ATOM 285 O LYS 35 39.282 52.640 62.085 1.00 22.33 ATOM 286 N ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 40.842 53.163 59.898 1.00 25.57 ATOM 288 CB ASP 36 42.881 53.914 58.572 1.00 33.92	AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA
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12 641 67 060 60 563 1 00 40 22	AAAA
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ATOM 250 500 300 300 42 079 54 575 57 538 1 00 40 06	AAAA
40 205 54 579 59 973 1 00 28 04	AAAA
ATOM 292 C ASP 30 E5 207 C0 765 1 00 29 52	AAAA
ATOM 293 0 ASP 30 32 32	AAAA
ATUM 194 N ALA	AAAA
ATOM 295 CA ALA 37 38.651 56.192 59.163 1.00 28.22	
ATOM 296 CB ALA 37 37.506 56.251 58.119 1.00 25.93	AAAA
ATOM 297 C ALA 37 38.127 56.549 60.565 1.00 28.41	AAAA
A10h 27 30 196 57 709 60 972 1 00 29 27	AAAA
ATOM 200 37 639 55 547 61 300 1 00 24 76	AAAA
ATOM 255 N MEI 30 37 103 55 727 62 669 1 00 25 45	AAAA
ATOM 300 CA MEI 30 31.100 35.10	AAAA
ATOM 301 CB ME1 30	AAAA
ATOM JUZ CG MET JO	
ATOM 303 SD MET 38 33.733 55.983 62.702 1.00 29.90	AAAA
NECK 304 CE MET 38 33,402 55,417 64,376 1.00 26.51	AAAA
20 203 55 667 63 744 1 00 26.42	AAAA
ATOM 303 C 122 27 024 EE 010 64 947 1 00 23 77	AAAA
ATOM 300 C 101 30 39 437 55 434 63 300 1 00 26.21	AAAA
ATOM 307 N ASN 33	AAAA
ATOM 308 CA ASN 33 45 100 33 45	AAAA
ATOM 309 CB ASN 35	AAAA
ATOM 310 CG ASN 39 41.153 57.751 63.858 1.00 29.46	
arom 311 OD1 ASN 39 41.930 57.596 62.925 1.00 36.28	AAAA
312 ND2 35N 39 40,472 58,880 64,046 1.00 40.03	AAAA
ATOM 512 AD 324 E4 223 65 205 1 00 30 07	AAAA
ATOM 313 C ASIA 300 66 395 1 00 25 47	AAAA
ATOM 514 0 ASIL 30 014 E3 105 64 744 1 00 28 19	AAAA
ATOM 315 N BEO 40	AAAA
ATOM 310 CA MED 40 STITE THIS TO THE STITE OF THE STITE O	AAAA
ATOM 317 CB LEU 40 38.060 51.562 65.514 1.00 32.14	
37.044 52.585 66.036 1.00 30.47	AAAA
319 CD3 LFU 40 35.637 52.027 65.894 1.00 29.07	AAAA.
27 275 52 69 67 491 1 00 23 80	AAAA
ATCM 320 CL2 DEC 40 433 50 371 65 415 1 00 26 99	AAAA
ATOM 321 C 250 40 107 10 107 1 100 25 41	AAAA
ATOM 322 0 EED 40 50 50 070 64 601 1 00 28 33	AAAA
ANCIM 323 N 424 34 34 35 35 5 5 5 5 5 5 5 5 5 5 5 5 5	AANA
ATOM 324 CA ILE 41 42.459 49.882 64.459 1.00 25.08	
TOM 325 CE ILE 41 42.010 49.020 63.243 1.00 25.01	3 P 7 "
326 CG2 IJF 41 42.061 49.824 61.961 1.00 22.74	AAAA
ATOM 320 CG2 120 42 917 47 902 63 128 1 00 31 01	AAAA
ATOM 327 CGI IDD 42 18 42 885 46 851 64 341 1 00 42 18 4	AAAA AAAA
ATUM 320 CEI 188 42 100 34 00	AAAA
31UM 323 C 128 12 1 00 20 02	AAAA AAAA
ATOM 330 0 ILE 41 44.128 51.406 63.621 1.00 28.92	4444 4444 4444

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				Fig	ure 16-6				
ATOM	331	N	ASP	42	44.866	49.634	64.787	1.00 28.95	AAAA
MOTA			ASP	42	46.279	49.988		1.00 32.52	AAAA AAAA
ATOM		CB	ASP	42	46.951	50.094		1.00 34.24 1.00 51.23	AAAA
ATOM			ASP	42	46.267	51.097		1.00 50.19	AAAA
ATOM		ODl		42	46.079	52.250		1.00 53.00	AAAA
ATOM		OD2		42	45.924	50.736 48.919	63.808	1.00 31.13	AAAA
MOTA			ASP	42	46.985 46.594	47.758	63.838	1.00 26.71	AAAA
MOTA		0	ASP	42	48.036	49.312	63.092	1.00 29.99	AAAA
ATOM		N	GLU	43 43	48.793	48.392	62.240	1.00 31.34	AAAA
MOTA	_	CA CB	GLU GLU	43	50.078	49.045	61.724	1.00 36.12	AAAA
ATOM	341 342	CG	GLU	43	49.886	50.118	60.676	1.00 52.72	AAAA
ATOM ATOM	343	CD	GLU	43	51.214	50.556	60.083	1.00 60.39	AAAA
ATOM	344			43	51.928	49.688	59.536	1.00 70.32	AAAA
ATOM	345			43	51.550	51.755	60.163	1.00 60.38	AAAA AAAA
ATOM	346	C	GLU	43	49.196	47.070	62.859	1.00 38.04 1.00 36.83	AAAA
MOTA	347	0	GLU	43	49.125	46.024	62.209 64.105	1.00 28.26	AAAA
ATOM	348	N	LYS	44	49.636 50.084	47.103 45.879	64.740	1.00 32.71	AAAA
MOTA	349	CA	LYS	44	50.004	46.245	65.927	1.00 44.28	AAAA
ATOM	350	CB	LYS	14 44	52.211	47.007	65.418	1.00 59.37	AAAA
MOTA	351 352	CD CD	LYS LYS	44	53.187	47.449	66.491	1.00 68.87	AAAA
ATOM	353	CE	LYS	44	54.373	48.167	65.849	1.00 67.21	AAAA.
MOTA MOTA	354	NZ	LYS	44	55.361	48.648	66.850	1.00 74.00	AAAA
MOTA	355	C	LYS	14	48.982	44.889	65.115	1.00 26.75	AAAA
MOTA	356	0	LYS	44	49.265	43.792	65.586	1.00 27.37 1.00 29.20	AAAA AAAA
ATOM	357	N	GLU	45	47.731	45.278	64.881 65.165	1.00 29.20	AAAA
ATOM	358	CA	GLU	45	46.580	44.414	65.676	1.00 18.24	AAAA
MOTA	359	CB	GLU	45	45.387 45.551	45.243 45.828	67.077	1.00 26.57	AAAA
MOTA	360	CG	GLU	45 45	44.418	46.772	67.453	1.00 23.12	AAAA
ATOM	361	CD OE1	GLU GLU	45	44.224	47.783	66.746	1.00 21.64	AAAA
ATOM	362 363		GLU	45	43.725	46.509	68.454	1.00 26.48	AAAA
ATOM ATOM	364	C	GLU	45 .	46.163	43.710	63.870	1.00 26.31	AAAA
ATOM	365	Õ	GLU	45	45.400	42.739	63.889	1.00 22.32 1.00 20.15	AAAA AAAA
ATOM	366	N	LEU	46	46.674	44.204	62.748	1.00 25.80	AAAA
ATOM	367	CA	LEU	46	46.317	43.642 44:774	61.448 60.433	1.00 27.25	AAAA
ATOM	368	CB	LEU	46	46.137 45.763	44.397	58.997	1.00 37.72	AAAA
MOTA	369	CG	LEU	46 46	44.356	43.810	58.984	1.00 39.46	AAAA
ATOM	370 371		LEU	46	45.822	45.632	58.101	1.00 35.43	AAAA
MOTA	372	CD2	LEU	46	47.305	42.623	60.896	1.00 28.88	AAAA
MOTA MOTA	373	ō	LEU	46	48.513	42.860	60.862	1.00 31.98	AAAA
ATOM	374	N	ILE	47	46.791	41.469	60.482	1.00 16.92	AAAA AAAA
ATOM	375	CA	ILE	47	47.638	40.448	59.872	1.00 20.98 1.00 21.51	AAAA
ATOM	376	CB	ILE	47	47.412	39.046 37.958	67.513 53.696	1.00 20.32	AAAA
MOTA	377		2 ILE	47	48.115 47.947	39.040		1.00 20.71	AAAA
MOTA	378	CG1	ILE	47 47	49.450	39.207		1.00 38.87	AAAA
ATOM	379		ILE ILE	47	47.227	40.417		1.00 24.50	AAAA
ATOM	380 381	0	ILE	47	46.036		58.101	1.00 20.74	AAAA
ATOM ATOM	382	Ŋ	LYS	48	48.195	40.550		1.00 18.73	AAAA
ATOM	383	CA	LYS	48	47.883	40.543		1.00 15.55	AAAA AAAA
ATOM	384	CB	LYS	48	49.095			1.00 16.52 1.00 23.25	AAAA
ATOM	385	· CG	LYS	48	48.836				AAAA
ATOM	386	CD	LYS	48	50.072				AAAA
ATOM	387	CE	LYS	18	49.796 48.704				AAAA
MOTA	388	NZ	LYS	48 .	48.704			1.00 14.43	AAAA
MOTA	389	C	LYS	48 48	48.177			1.00 16.83	АААА
ATOM	390	O N	LYS SER	19	46.343			1.00 16.61	AAAA
ATOM	391 392	.v CA		49	45.838		54.439		AAAA
atom atom	393	CB		49	44.517	37.984		1.00 13.21	АААА АААА
ATOM	394	OG		49	43.509			1.00 16.86	aaaa Aaaa
ATOM	395	c	SER	49	46.810				AAAA
ATOM	396	0	SER	49	47.463	37.81	5 _52.663	1.00 19.00	

					-				
ATOM	397	N	ARG	50	46.890	35.805	53.519	1.00 16.83	AAAA
ATOM	398	CA	ARG	50	47.724	35.037	52.610	1.00 23.88	
			_						AAAA
ATOM	399	CB	ARG	50	48.805	34.247	53.366	1.00 27.48	AAAA
MOTA	400	CG	ARG	50	48.284	33.036	54.177	1.00 22.99	AAAA
ATOM	401	CD	ARG	50	49.453	32.263	54.759	1.00 25.20	AAAA
	402								
MOTA		NE	ARG	50	49.073	31.197	55.684	1.00 15.88	AAAA
ATOM	403	CZ ,	ARG	50	48.411	30.093	55.368	1.00 14.34	A A A
ATOM	404	NHl	ARG	50	48.023	29.863	54.117	1.00 15.78	AAAA
ATOM	405		ARG	. 50	48.150	29.197	56.312	1.00 16.78	
									AAAA
ATOM	406	C	ARG	50	46.821	34.023	51.905	1.00 20.20	AAAA
MOTA	407	0	ARG	50 -	45.763	33.650	52.414	1.00 18.63	AAAA
ATOM	408	N	PRO	51	47.203	33.596	50.699	1.00 15.63	AAAA
ATOM	409	CD	PRO	51	48.322	34.028	49.850	1.00 19.45	
									AAAA
ATOM	410	CA	PRO	51	46.387	32.606	49.994	1.00 14.35	AAAA
ATOM	411	CB	PRO	51	47.076	32.514	48.629	1.00 17.73	AAAA
ATOM	412	CG	PRO	51	47.707	33.890	48.47-5	1.00 17.62	AAAA
ATOM	413	c	PRO	51	46.452	31.256	50.708	1.00 15.73	
									AAAA
ATOM	414	0	PRO	51	47.460	30.942	51.350	1.00 18.67	AAAA
ATOM	415	N	ALA	52	45.377	30.470	50.618	1.00 11.47	AAAA
ATOM	416	CA	ALA	52	45.375	29.117	51.161	1.00 9.78	AAAA
ATOM	417	CE	ALA	52	43.967	28.529	51.112		
								1.00 12.19	AAAA
ATOM	418	C	ALA	52	46.301	28.342	50.209	1.00 17.19	AAAA
ATOM	419	0	ALA	52	46.307	28.609	49.006	1.00 16.46	AAAA
ATOM	420	N	THR	53	47.081	27.392	50.723	1.00 16.40	AAAA
ATOM	421	ÇA	THR	53	47.952	26.615	49.843		
								1.00 16.32	AAAA
atom	422	CB	THR	53	49.109	25.959	50.612	1.00 15.82	AAAA
MOTA	423	OG1	THR	. 53	48.582	25.016	51.559	1.00 16.25	AAAA
ATOM	424	CG2	THR	53	49.923	27.030	51.336	1.00 14.34	AAAA
ATOM	425	С	THR	53	47.104	25.520	49.215	1.00 14.06	
									AAAA
ATOM	426	0	THR	53	46.012	25.241	49.690	1.00 17.87	AAAA
ATOM	427	N	LYS	54	47.599	24.903	48.145	1.00 16.10	AAAA
MOTA	428	CA	LYS	54	46.848	23.832	47.492	1.00 19.00	AAAA
ATOM	429	CB	LYS	54	47.671	23.245	46.339	1.00 22.92	AAAA
	430				46.955				
MOTA		CG	LYS	54		22.172	45.539	1.00 32.99	AAAA
ATOM	431	CD	LYS	54	45.787	22.733	44.757	1.00 51.34	AAAA
ATOM	432	CE	LYS	54	46.244	23.565	43.561	1.00 64.17	AAAA
ATOM	433	NZ	LYS	54	46.898	22.733	42.505	1.00 63.45	AAAA
ATOM	434	C	LYS	54	46.554	22.738	48.520	1.00 22.48	
									AAAA
atom	435	0	LYS	54	45.463	22.158	48.555	1.00 19.97	AAAA
ATOM	436	N	GLU	55	47.536	22.465	49.364	1.00 25.65	AAAA
ATOM	437	CA	GLU	55	47.389	21.432	50.383	1.00 25.08	AAAA
ATOM	438	CB	GLU	55 .	48.718	21.241	51.116	1.00 25.40	AAAA
atom	439	CG	GLU	55	48.703	20.185	52.199	1.00 48.95	AAAA
ATOM	440	CD	GLU	55	50.106	19.821	52.673	1.00 64.21	AAAA
ATOM	441	OE1	GLU	55	50.220	19.033	53.640	1.00 62.38	AAAA
ATOM	42	OE2		55	51.093	20.311	52.073	1.00 58.22	AAAA
		_			4 - 0 - 0				
ATOM	.43	C	GLU	55	46.273	21.773	51.362	1.00 18.91	AAAA
ATOM	-44	0	GLU	55	45.489	20.908	51.723	1.00 17.43	AAAA
ATOM	445	N	GLU	56	46.196	23.029	51.786	1.00 16.80	AAAA
MOTA	446	CA	GLU	56	45.137	23.432	52.698	1.00 17.24	AAAA
	447		GLU	56	45.399	24.855	53.204	1.00 16.15	
ATOM		CB							AAAA
ATOM	448	CG	GLU	56	46.709	24.941	54.009	1.00 14.41	AAAA
MOTA	449	CD	GLU	56	47.087	26.354	54.358	1.00 20.17	AAAA
MOTA	450	OEL	GLU	56	46.713	27.252	53.567	1.00 17.12	AAAA
			GLU	56	47.773	26.564		1.00 18.23	AAAA
ATOM	451						55.394		
ATOM	452	C	GLU	56	43.781	23.313	52.000	1.00 15.95	AAAA
ATOM	453	0	GLU	56	42.799	22.869	52.599	1.00 17.82	AAAA
ATOM	454	N	LEU	57	43.722	23.691	50.725	1.00 17.53	AAAA
				57	42.466	23.579			AAAA
ATOM	455	CA	LEU				49.589	1.00 16.34	
ATOM	456	CB	LEU	57	42.591	24.177	48.586	1.00 13.86	AAAA
ATOM	457	CG	LEU	5 7	42.773	25.707	48.552	1.00 15.24	AAAA
ATOM	458		LEU	57	42.923	26.182	47.101	1.00 19.30	AAAA
			LEU	57	41.546	26.380	49.207	1.00 15.14	AAAA
ATOM	459								
ATOM	460	C	LEU	57	42.016	22.126	49.868	1.00 18.46	AAAA
ATOM	461	0	LEU	57	40.824	21.823	49.972	1.00 17.27	AAAA
ATOM	462	N	LEU	58	42.975	21.234	49.636	1.00 16.43	AAAA
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					Figure 16-8				
ATOM	463	CA	LEU	58	42.662	19.822	49.475	1.00 15.18	AAAA
ATOM	464	CB	LEU	58	43.788	19.113	48.727	1.00 16.09	AAAA
ATOM	465	CG	LEU	58	44.029	19.682	47.321	1.00 21.72	AAAA
ATOM	466		LEU	58	45.221	18.982	46.680	1.00 31.92	AAAA
MOTA	467		LEU	58	42.786	19.549	46.469	1.00 34.38	AAAA
MOTA	468	С	LEU	58	42.339	19.116	50.787	1.00 21.19	AAAA
ATOM	469	0	LEU	58	42.067	17.914	50.795	1.00 20.40	AAAA
ATOM	470	N	LEU	59	42.377	19.849	51.896	1.00 13.50	AAAA
ATOM	471	CA	LEU	59 50	41.958	19.261	53.173	1.00 15.58	AAAA
ATOM	472 473	CB CG	LEU	59 59	42.182 43.619	20.236 20.537	54.339 54.774	1.00 18.98 1.00 22.57	AAAA
ATOM ATOM	474		LEU	59	43.640	21.654	55.808	1.00 22.57	AAAA AAAA
ATOM	475		LEU	59 [.]	44.255	19.253	55.339	1.00 19.88	AAAA
ATOM	476	C	LEU	59	40.446	18.979	53.043	1.00 17.55	AAAA
ATOM	477	Ō	LEU	59	39.897	18.112	53.724	1.00 18.02	AAAA
MOTA	478	N	PHE	60	39.766	19.737	52.179	1.00 14.64	- AAAA
MOTA	479	CA	PHE	60	38.338	19.536	51.970	1.00 18.17	AAAA
MOTA	480	CB	PHE	60	37.519	20.694	52.557	1.00 18.80	AAAA
ATOM	481	CG	PHE	60	36.028	20.564	52.316	1.00 15.94	AAAA
ATOM	482		PHE	60	35.320	19.476	52.817	1.00 19.98	AAAA
ATOM	483 484		PHE PHE	60 60	35.339 33.947	21.524 19.338	51.576 52.587	1.00 18.09	AAAA
MOTA MOTA	485		PHE	60	33.964	21.399	51.338	1.00 18.72 1.00 19.19	AAAA AAAA
ATOM	486	CZ	PHE	60	33.268	20.295	\$1.850	1.00 18.43	AAAA
ATOM	487	C	PHE	60	37.916	19.337	50.510	1.00 16.45	AAAA
ATOM	488	0	PHE	60	37.227	18.371	50.179	1.00 19.18	AAAA
ATOM	489	N	HIS	61	38.308	20.257	49.638	1.00 18.26	AAAA
ATOM	490	CA	HIS	61	37.913	20.163	48.235	1.00 14.47	AAAA
ATOM	491	CB	HIS	61	38.004	21.545	47.582	1.00 17.15	AAAA
MOTA	492	CG	HIS	61	36.968	22.494	48.084	1.00 14.20	AAAA
MOTA MOTA	493 494		HIS HIS	61 61	35.645 37.237	22.580 23.477	47.816 49.012	1.00 11.05 1.00 23.25	AAAA AAAA
ATOM	495		HIS	61	36.121	24.131	49.291	1.00 23.25	AAAA
ATOM	496		HIS	61	35.143	23.606	48.579	1.00 21.07	AAAA
ATOM	497	C	HIS	61	38.695	19.157	47.417	1.00 18.29	AAAA
ATOM	498	0	HIS	61	39.828	18.819	47.761	1.00 17.50	AAAA
ATOM	499	N	THR	62	38.071	18.658	46.346	1.00 15.39	AAAA
ATOM	500	CA	THR	62	38.741	17.686	45.473	1.00 19.02	AAAA
MOTA	501	CB	THR	62	37.734	16.767	44.756	1.00 19.61	AAAA
ATOM	502 503	OG1 CG2	THR THR	62 62	36.795 36.995	17.548 15.925	44.006 45.767	1.00 22.05 1.00 28.99	AAAA AAAA
ATOM ATOM	504	CGZ	THR	62	39.595	18.398	44.440	1.00 23.22	AAAA
ATOM	505	Ö	THR	62	39.311	19.532	44.044	1.00 17.47	AAAA
ATOM	506	N	GLU	63	40.657	17.732	44.009	1.00 18.94	AAAA
ATOM	507	CA	GLU	63	41.571	18.324	43.046	1.00 22.44	AAAA
MOTA	508	CB	GLU	63	42.736	17.384	42.750	1.00 28.31	AAAA
ATOM	509	CG	GLU	63	43.885	17.476	43.708	1.00 60.37	AAAA
ATOM	510	CD	GLU	63	45.154	16.893	43.115	1.00 55.08	AAAA
ATOM ATOM	511 512		GLU GLU	63 63	45.603 45.697	17.407 15.927	42.065 43.694	1.00 66.44 1.00 71.72	AAAA AAAA
ATOM	513	C	GLU	63	40.983	18.764	41.730	1.00 18.63	AAAA
ATOM	514	õ	GLU	63	41.340	19.827	41.228	1.00 18.37	AAAA
ATOM	515	N	ASP	64	40.108	17.943	41.153	1.00 19.77	AAAA
ATOM	515	CA	ASP	64	39.508	18.277	39.864	1.00 17.88	AAAA
MOTA	517	CB	ASP	64	38.584	17.159	39.372	1.00 20.43	АААА
ATOM	518	CG	ASP	64	37.429	16.884	40.330	1.00 42.71	AAAA
ATOM	519		ASP	64	36.415	16.291	39.899	1.00 45.01	AAAA
ATOM	520		ASP	64 64	37.537	17.243	41.521	1.00 51.77	AAAA AAA
ATOM	521 522	င ၁	ASP ASP	64 64	38.701 38.726	19.582 20.410	39.964 39.042	1.00 21.90 1.00 17.35	AAAA AAAA
atom atom	523	Ŋ	TYR	65	37.980	19.750	41.072	1.00 16:17	AAAA
ATOM	524	CA	TYR	65	37.178	20.957	41.292	1.00 15.62	AAAA
ATOM	525	CB	TYR	65	36.258	20.796	42.529	1.00 12.04	KAAA
ATOM	526	CG	TYR	65	35.501	22.065	42.886	1.00 12.23	AAAA
ATOM	527	CD1	TYR	65	34.699	22.718	41.940	1.00 14.73	AAAA
ATOM	528	CE1	TYR	65	34.028	23.910	42.253	1.00 18.23	AAAA

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MOTA	529	CD2 TYR	65	35.609	22.631	44.163	1.00 13.67	AAAA
ATOM	530	CE2 TYR	65	34.943	23.824	44.486	1.00 18.16	AAAA
ATOM	531	CZ TYR	65	34.162	24.461	43.533	1.00 16.88	
								AAAA
MOTA	532	OH TYR	65	33.555	25.665	43.837	1.00 14.59	AAAA
ATOM	533	C TYR	65	38.090	22.177	41.459	1.00 15.27	AAAA
ATOM	534	O TYR	65	37.882	23.189	40.798	1.00 15.96	AAAA
ATOM	535	N ILE	66	39.098	22.073	42.321	1.00 14.29	AAAA
ATOM	536	CA ILE	66	40.022	23.179	42.540	1.00 18.86	AAAA
ATOM	537	CB ILE	66	41.090	22.836	43.617	1.00 15.56	AAAA
ATOM	538	CG2 ILE	66	42.152	23.943	43.698	1.00 20.45	AAAA
ATOM	539	CG1 ILE	66	40.405	22.659	44.967	1.00 19.68	AAAA
ATOM	540	CD1 ILE	66	39.717	23.948	45.454	1.00 29.11	AAAA
ATOM	541	C ILE	66	40.716	23.519	41.236	1.00 25.20	AAAA
	542	O ILE	66	40.809		40.895	1.00 14.60	
MOTA					24.692			AAAA
ATOM	543	n Asn	67	41.190	22.508	40.498	1.00 18.21	AAAA
ATOM	544	CA ASN	67	41.879	22.789	39.236	1.00 20.03	AAAA
ATOM	545	CB ASN	67	42.448	21.523	38.580	1.00 21.73	AAAA
ATOM	546	CG ASN	67	43.645	20.954	39.333	1.00 21.69	AAAA
ATOM	547	OD1 ASN	67	44.293	21.645	40.110	1.00 23.97	AAAA
ATOM	548	ND2 ASN	67	43.947	19.692	39.086	1.00 23.23	AAAA
MOTA	549	C ASN	67	40.970	23.500	38.250	1.00 15.87	AAAA
ATOM	550	O ASN	67	41.431	24.347	37.473	1.00 18.64	AAAA
ATOM	551	N THR	68	39.681	23.180	38.295	1.00 16.55	AAAA
ATOM	552	CA THR	68	38.729	23.814	37.400	1.00 20.34	AAAA
ATOM	553	CB THR	68	37.360	23.114	37.441	1.00 22.99	AAAA
ATOM	554	OG1 THR	68	37.511	21.760	36.978	1.00 21.75	AAAA
ATOM	555	CG2 THR	68	36.378	23.827	36.536	1.00 17.37	AAAA
	556		68	38.561	25.291	37.755		
MOTA							1.00 16.66	AAAA
ATOM	557	O THR	68	38.472	26.139	36.871	1.00 18.79	AAAA
ATOM	558	n LEU	69	38.534	25.604	39.045	1.00 14.82	AAAA
ATOM	559	CA LEU	69	38.405	27.000	39.447	1.00 15.20	AAAA
MOTA	560	CB LEU	69	38.295	27.126	40.973	1.00 16.87	AAAA
ATOM	561	CG LEU	69	37.057	26.551	41.666	1.00 14.76	AAAA
ATOM	562	CD1 LEU	69	37.212	26.643	43.179	1.00 16.81	AAAA
ATOM	563	CD2 LEU	69	35.832	27.312	41.217	1.00 17.26	AAAA
ATOM	564	C LEU	69	39.623	27.796	38.969	1.00 15.11	AAAA
	565		69	39.500	28.934	38.504	1.00 13.11	AAAA
ATOM								
MOTA	566	N MET	70	40.803	27.204	39.090	1.00 13.40	AAAA
ATOM	567	CA MET	70	42.019	27.894	38.659	1.00 16.97	AAAA
ATOM	. 568	CB MET	70	43.254	27.114	39.075	1.00 14.87	AAAA
ATOM	569	CG MET	70	43.335	26.886	40.582	1.00 15.18	AAAA
MOTA	570	SD MET	70	44.828	25.954	41.060	1.00 28.71	AAAA
ATOM	571	CE MET	70	46.051	27.228	40.893	1.00 21.19	AAAA
ATOM	572	C MET	70	42.064	28.119	37.155	1.00 19.11	AAAA
MOTA	573	O MET	70	42.498	29.170	36.700	1.00 17.10	AAAA
MOTA	. 574	N GL	71	41.648	27.118	36.389	1.00 15.06	AAAA
ATOM	575	CA GLU	71	41.651	27.226	34.934	1.00 16.12	AAAA
ATOM	576	CB GLU	71	41.397	25.856	34.305	1.00 16.12	AAAA
MOTA	577	CG GLU	71	41.387	25.882	32.800	1.00 20.26	AAAA
MOTA	578	CD GLU	71	42.782	25.920	32.193	1.00 32.31	AAAA
ATOM	579	OE1 GLU	71	42.893	25.741	30.958	1.00 27.07	AAAA
ATOM	580	OE2 JLU	71	43.762	26.117	32.941	1.00 24.85	AAAA
ATOM	581	C GLU	71	40.580	28.208	34.466	1.00 16.48	AAAA
	. 582		71	40.831	29.066	33.611	1.00 17.20	AAAA
MOTA		O GLU						
ATOM	583	N ALA	72	39.380	28.097	35.027	1.00 15.68	AAAA
MOTA	584	CA ALA	72	38.300	28.998	34.644	1.00 16.07	AAAA
ATOM	585	CB %LA	72	37.035	28.669	35.425	1.00 17.21	AAAA
MOTA	586	c ala	72	38.678	30.453	34.897	1.00 19.07	AAAA
ATOM	587	O ALA	72	38.448	31.326	34.054	1.00 15.92	AAAA
ATOM	588	N GLU	73	39.260	30.726	36.062	1.00 15.86	AAAA
ATOM	589	CA GLU	73	39.616	32.097	36.372	1.00 15.50	AAAA
			73	40.046		37.828	1.00 14.12	AAAA
ATOM	590	CB GLU			32.210			
ATOM	591	CG GLU	73	40.430	33.615	38.214	1.00 14.24	AAAA
ATOM	592	CD GLU	73	40.961	33.699	39.629	1.00 17.23	AAAA
ATOM	593	OE1 GLU	73	40.147	33.696	40.573	1.00 18.51	AAAA
ATOM	594	OE2 GLU	73	42.201	33.753	39.793	1.00 20.88	AAAA
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- mov	595	С	GLU	73	40.706	32.709	35.495	1.00 20.36	AAAA
ATOM		-			40.527	33.806	34.948	1.00 17.74	AAAA
MOTA	596		GLU	73			35.344	1.00 21.57	AAAA
ATOM	597	N	ARG	74	41.832	32.020			
	598	CA	ARG	74	42.911	32.623	34.574	1.00 19.48	AAAA
ATOM				74	44.256	31.912	34.834	1.00 18.48	AAAA
MOTA	599	CB	ARG			30.489	34.351	1.00 14.96	AAAA
MOTA	600	CG	ARG	74	44.365				
MOTA	601	CD	ARG	74	45.723	29.892	34.745	1.00 15.05	AAAA
	602	NE	ARG	74	45.918	28.696	33.950	1.00 18.16	AAAA
MOTA				74	46.439	28.682	32.727	1.00 16.31	AAAA
MOTA	603	CZ	ARG				32.145	1.00 19.74	AAAA
ATOM	604	NHl	ARG	74	46.843	29.811			AAAA
ATOM	605	NH2	ARG	74	46.466	27.536	32.047	1.00 14.73	
	606	С	ARG	74	42.643	32.718	33.084	1.00 16.86	AAAA
MOTA				74	43.148	33.621	32.426	1.00 15.41	AAAA
MOTA	607	0	ARG			31.794	32.547	1.00 17.56	AAAA
ATOM	608	N	CYS	75	41.859			1.00 18.24	AAAA
MOTA	609	CA	CYS	75	41.544	31.833	31.115		
	610	CB	CYS	75	41.474	30.414	30.545	1.00 20.94	AAAA
MOTA			CÝS	75	43.047	29.514	30.572	1.00 19.30	AAAA
MOTA	611	SG				32.561	30.898	1.00 15.81	AAAA
MOTA	612	C	CYS	75	40.216			1.00 17.79	AAAA
ATOM	613	0	CYS	75	39.762	32.748	29.762		
	614	N	GLN	76	39.601	32.959	32.007	1.00 15.63	AAAA -
MOTA			GLN	76	38.339	33.686	32.010	1.00 23.22	AAAA
MOTA	615	CA			38.595	35.122	31.530	1.00 22.99	AAAA
A I OM	616	CB	GLN	76			32.027	1.00 44.69	AAAA
ATOM	617	CG	GLN	76	37.564	36.107			AAAA
	618	CD	GLN	76	37.588	36.229	33.535	1.00 47.78	
MOTA			GLN	76	37.563	35.228	34.243	1.00 62.95	AAAA
ATOM	619				37.619	37.452	34.033	1.00 45.96	AAAA
MOTA	620	NE2	GLN	76			31.135	1.00 23.43	AAAA
MOTA	621	С	GLN	76	37.304	32.975			AAAA
ATOM	622	0	GLN	76	36.826	33.512	30.135	1.00 19.93	
	623	N	CYS	77	36.951	31.754	31.521	1.00 15.97	AAAA
MOTA				77	36.004	30.979	30.741	1.00 18.91	AAAA
MOTA	624	CA	CYS			30.225	29.623	1.00 24.64	AAAA
ATOM	625	CB	CYS	77	36.738			1.00 25.26	AAAA
ATOM	626	SG	CYS	77	37.848	28.887	30.269		
	627	C	CYS	77	35.302	29.951	31.594	1.00 19.68	AAAA
MOTA			CYS	77	35.685	29.702	32.732	1.00 20.02	AAAA
MOTA	628	0			34.254	29.366	31.022	1.00 16.00	AAAA
MOTA	629	N	VAL	78			31.671	1.00 18.73	AAAA
ATOM	630	CA -	VAL	78	33.531	28.288		1.00 15.57	AAAA
ATOM	631	CB	VAL	78	32.016	28.455	31.557	1.00 13.37	
	632		VAL	78	31.312	27.304	32.262	1.00 21.27	AAAA
ATOM				78	31.603	29.792	32.151	1.00 19.47	AAAA
MOTA	633		VAL		33.950	27.077	30.859	1.00 24.02	AAAA
ATOM	634	C	VAL	78			29.718	1.00 24.08	AAAA
ATOM	635	0	VAL	78	33.499	26.894			AAAA
ATOM	636	N	PRO	79	34.848	26.249	31.420	1.00 18.91	
	637	CD	PRO	79	35.470	26.341	32.756	1.00 17.70	AAAA
MOTA				79	35.320	25.056	30.720	1.00 23.37	AAAA
ATOM	638	CA	PRO		36.295	24.432	31.732	1.00 21.92	AAAA
ATOM	639	CE	PRO	79				1.00 20.90	AAA "
ATOM	640	CG	PRO	79	36.802	25.677	32.498	1.00 20.50	.AAA.
ATOM	641	С	PRO	79	34.152	24.144	30.376	1.00 27.44	
		ō	PRO	79	33.177	24.064	31.119	1.00 22.20	AAA
MOTA	642			80	34.245	23.488	29.224	1.00 23.35	AAAA
MOTA	643	N	LYS			22.570			AAAA
ATOM	644	CA	LYS	80	33.212				AAAA
ATOM	645	CB	LYS	80	33.708	21.853			AAAA
ATOM	646	CG	LYS	80	35.098	21.256	27.680	1.00 51.34	
			LYS	80	35.669	20.817	26.336	1.00 68.70	AAAA
MOTA	647	CD			37.131	20.401		1.00 70.04	AAAA
MOTA	648	CE	LYS	80					AAAA
MOTA	649	NZ	LYS	80	37.688				AAAA
ATOM	650	С	LYS	80	32.875		29.875		
		٥	LYS	80	33.770	20.957	30.458	1.00 24.23	AAAA
MOTA	651			81	31.582			1.00 16.74	AAAA
ATCM	652	N	GLY						AAAA
MOTA	653	CA	GLY	81	31.126				AAAA
ATOM	654	С	GLY	81	31.151			_ `	FAAA
	655	õ	GLY	81	30.604	20.396			
ATOM				32	31.754			1.00 22.57	AAAA
ATOM	656		ALA		31.858				AAAA
ATOM	657	CA		82		24.730			AAAA
ATCM	658		àLà	82	33.065				AAAA
	659		ALA	82	30.610				
ATCM			ALA		30.425	23.529	35.994	1.00 16.95	AAAA
ATCM	660		אינואי		- - · - ·		•		•

				-	.64.4	•			
ATCM	661	N	ARG	83	29.758	23.926	33.897	1.00 17.68	£AAA
ATCM	662	CA	AEG	83	28.549	24.596	34.360	1.00 15.04	AAAA
ATCM	663	CB	ARG	83	27.777	25.188	33.176	1.00 21.02	AAAA
ATCM	664	CG	ARG	83	26.938	26.395	33.528	1.00 36.77	AAAA
ATCM	665	CD	ARG	83	26.061	26.167	34.729	1.00 41.28	AAAA
ATCM	666	NE	ARG	83	25.366	27.393	35.105	1.00 40.05	AAAA
ATCM	667	CZ	ARG	83	24.530	27.492	36.134	1.00 51.15	AAAA
ATCM	668		ARG	83	24.286	26.432	36.893	1.00 55.10	AAAA
ATCM	669		ARG	83	23.931	28.646	36.399	1.00 54.26	AAAA
ATCM	670	C	ARG	83	27.701	23.530	35.030	1.00 21.33	AAAA
ATCM	671	0	ARG	83 ·	27.193	23.708	36.130	1.00 24.88	AAAA
ATOM ATOM	672 673	N CA	GLU	84	27.565	22.406	34.352	1.00 18.76	AAAA
ATOM	674	CB	GLU GLU	84 84	26.768	21.299	34.859	1.00 24.12	AAAA
MOTA	675	CG	GLU	84	26.527 27.769	20.290	33.744	1.00 32.64	AAAA
ATOM	676	CD	GTO.		27.703	19.994 20.784	32.925	1.00 37.91	AAAA
ATCM	677		GLU	84	27.585	20.754	31.612 30.545	1.00 51.24 1.00 24.82	AAAA
ATCM	678		GLU	84	28.114	22.018	31.650	1.00 24.82	AAAA
MOTA	679	C	GLU	84	27.394	20.570	36:043	1.00 25.36	AAAA AAAA
MOTA	680	0	GLU	84	26.739	20.321	37.057	1.00 26.17	AAAA
ATCM	681	N	LYS	85	28.665	20.232	35.897	1.00 18.78	AAAA
MOTA	682	CA	LYS	85	29.399	19.497	36.915	1.00 20.03	AAAA
ATCM	683	CB	LYS	85	30.658	18.900	36.280	1.00 18.59	AAAA
ATCH	684	CG	LYS	85	31.603	18.223	37.268	1.00 35.69	AAAA
MOTA	685	CD	LYS	85	31.151	16.832	37.644	1.00 51.51	AAAA
ATOM	686	CE	LYS	85	31.451	15.864	36.520	1.00 59.18	AAAA
ATOM	687	NZ	LYS	85	32.914	15.858	36.240	1.00 56.63	AAAA
ATOM	688	C	LYS	85	29.811	20.263	38.181	1.00 18.31	AAAA
MOTA	689	0	LYS	85	29.696	19.738	39.290	1.00 21.65	AAAA ,
ATCM ATOM	690 691	N	TYR	86 86	30.274	21.495	38.012	1.00 19.45	AAAA
ATOM	692	CA CB	TYR -	86 86	30.776 32.207	22.272	39.145	1.00 14.26	AAAA
ATCM	693	CG	TYR	86	33.107	22.692	38.840	1.00 14.95	AAAA
MOTA	694		TYR	86 .	33.384	21.508 20.591	38.585 39.601	1.00 19.76	AAAA
ATOM	695		TYR	86	34.247	19.519	39.388	1.00 18.83 1.00 20.29	AAAA
ATCM	696	CD2		86	33.711	21.322	37.337	1.00 20.29	AAAA AAAA
MOTA	697	CE2	TYR	86	34.567	20.261	37.112	1.00 22.66	AAAA
ATCM	698	CZ	TYR	86	34.832	19.364	38.145	1.00 22.61	AAAA
MOTA	699	OH	TYR	86	35.680	18.317	37.921	1.00 23.68	AAAA
ATOM	700	C	TYR	86	29.967	23.493	39.526	1.00 19.03	AAAA
ATOM	701	0	TYR	86	30.353	24.226	40.450	1.00 19.18	AAAA
ATOM	702	N	ASN	87	28.873	23.721	38.803	1.00 17.59	AAAA
ATOM	703	CA	ASN	87 2 5	27.953	24.843	39.071	1.00 18.07	AAAA
ATCM	704	CB	ASN	87	27.413	24.730	40.514	1.00 23.87	AAAA
ATOM ATOM	705 706	CG	ASN	87	26.020	25.349	40.688	1.00 30.67	'AAAA'
ATOM	705		ASN	87	25.531	25.520	41.819	1.00 31.55	AAAA
ATOM	708	C	asn asn	87 87	25.370 28.641	25.661 26.197	39.580 38.875	1.00 20.18	AAAA
ATOM	709	Ö	ASN	87	28.283	27.190	_	1.00 24.24	AAAA
ATCM	710	N	ILE	88	29.617	26.237	39.519 37.970	1.00 18.57 1.00 18.80	AAAA AAAA
ATCM	711	CA	ILE	88	30.353	27.471	37.680	1.00 18.55	AAAA
ATOM	712	CB	ILE	88	31.865	27.166	37.508	1.00 26.44	AAAA
ATCM	713	CG2		88	32.613	28.406	37.044	1.00 43.71	AAAA
MOTA	714	CG1		88	32.439	26.703	38.835	1.00 36.30	AAAA
ATOM	715	CD1		88	32.295	27.735	39.888	1.00 24.08	AAAA
ATOM	716	С	ILE	88	29.887	28.142	36.392	1.00 14.36	AAAA
ATOM	717	0	ILE	38	29.584	27.459	35.426	1.00 21.93	AAAA
ATCM	718	N	GLY	89	29.843	29.473	36.380	1.00 18.71	AAAA
MOTA	719	CA	GLY	89	29.479	30.162	35.154	1.00 20.23	AAAA
ATOM	720	С	GLY	89	28.147	30.873	35.106	1.00 20.85	AAAA
ATOM	721		GLY	89	28.006	31.817	34.330	1.00 25.47	AAAA
ATCM	722		GLY	90	37.172	30.414	35.889	1.00 21.17	તેતૈતૈત
ATOM	723		GLY	90	25.863	31.060	35.898	1.00 24.44	AAAA
ATCM	724		GLY	90	25.862	32.371	36.668	1.00 30.60	AAAA
ATOM	725	0	GLY	90	26.900	32.788	37.168	1.00 28.13	AAAA
ATCM	726	71	TYR	91	24.708	33.036	36.755	1.00 23.38	AAAA

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				rigu	10 10-12				
> mo>4	727	CA '	TYR	91	24.598	34.299		1.00 28.48	AAAA
MOTA	728		TYR	91	23.144	34.753		1.00 29.88	AAAA
ATOM	729		TYR	91	22.923	35.899	38.518	1.00 33.88	AAAA
ATOM		CD1		91	23.329	37.197	38.207	1.00 39.69	AAAA
MOTA		CE1		91	23.130	38.250	39.104	1.00 31.76	AAAA
MOTA		CD2		91	22.317	35.678	39.759	1.00 40.63	AAAA
ATOM-	733		TYR	91	22.115	36.720	40.664	1.00 37.07	AAAA
ATOM	734		TYR	91	22.521	38.002	40.327	1.00 36.22	AAAA
ATOM			TYR	91	22.306	39.035	41.210	1.00 44.71	AAAA
MOTA	735 736		TYR	91	25.075	34.157	38.937	1.00 23:59	AAAA
ATOM		_	TYR	91	25.713	35.041	39.502	1.00 22.64	AAAA
MOTA	737 738		GLU	92	24.724	33.032	39.531	1.00 23.09	AAAA
ATOM			GLU	92 .	25.048	32.747	40.917	1.00 26.61	AAAA
ATOM	739		GLU	92	24.289	31.476	41.306	1.00 32.57	AAAA
ATOM	740		GLU	92	24.595	30.892	42.657	1.00 41.38	AAAA
ATOM	741 742	CD	GLU	92	23.604	29.800	43.023	1.00 49.02	- AAAA
MOTA	743	OE1		92	24.008	28.829	43.715	1.00 45.51	AAAA
MOTA	744	OE2		92	22.418	29.931	42.628	1.00 38.16	AAAA
MOTA	745	C	GLU	92	26.541	32.636	41.251	1.00 25.78	AAAA
MOTA	746	0	GLU	92	27.045	33.358	42.125	1.00 24.95	AAAA
MOTA	747	N.	ASN	93	27.243	31.742	40.556	1.00 21.41	AAAA
ATOM	748	CA	ASN	93	28.674	31.519	40.777	1.00 21.14	AAAA
ATOM	749	CB	ASN	93	28.876	30.075	41.226	1.00 17.27	AAAA
MOTA	750	CG	ASN	93	27.905	29.682	42.320	1.00 15.34	AAAA
MOTA	751	OD1		93	27.882	30.290	43.399	1.00 20.33	AAAA
ATOM	752		ASN	93	27.078	28.674	42.047	1.00 20.49	AAAA .
ATOM	753	C	ASN	93	29.378	31.778	39.445	1.00 22.25	AAAA
MOTA	754	0	ASN	93	29.901	30.865	38.806	1.00 20.29	AAAA
MOTA	755	N-	PRO	94	29.451	33.057	39.045	1.00 25.45	AAAA
ATOM	756	CD	PRO	94	29.027	34.221	39.839	1.00 23.03	AAAA
ATOM	757	CA	PRO	94	30.055	33.523	37.794	1.00 23.05	AAAA
ATOM ATOM	758	CB	PRO	94	29.669	35.004	37.759	1.00 28.71	AAAA
MOTA	759	CG	PRO	94	28.528	35.112	38.755	1.00 40.02	AAAA
	760	c	PRO	94	31.554	33.384	37.697	1.00 26.51	AAAA
MOTA MOTA	761	Ö	PRO	94	32.232	33.185	38.688	1.00 17.36	AAAA
ATOM	762	N	VAL	95	32.068	33. 49 8	36.478	1.00 21.12	AAAA
ATOM	763	CA	VAL	95	33.506	33.493	36.281	1.00 17.00	'AAAA AAAA
ATOM	764	CB	VAL	95	33.851	33.242	34.796	1.00 25.15	AAAA
ATOM	765		VAL	95	35.326	33.537	34.533	1.00 27.19	AAAA
ATOM	766		VAL	95	33.551	31.791	34.443	1.00 17.37	AAAA
ATOM	767	С	VAL	95	33.989	34.899	36.686	1.00 17.42	AAAA
ATOM	768	O	VAL	95	33.426		36.237	1.00 23.43	AAAA
ATOM	769	N	SER	96	34.986		37.563	1.00 18.84 1.00 21.77	AAAA
MOTA	770	CA	SER	96	35.564			1.00 23.11	AAAA
MOTA	771	CB	SER	96	34.608			1.00 24.43	AAAA
ATOM	772	OG	SER	96	34.723			1.00 24.43	AAAA
ATOM	773	С	SER	9 6	36.835			1.00 27.12	AAAA
ATCM	774	0	SER	96	37.117				AAAA
ATOM	775	N	TYR	97	37.610			1.00 20.69	AAAA
ATOM	776	CA	TYR	97	50.005				AAAA
MOTA	777	CB	TYR	97	39.865				AAAA
MOTA	778	CG	TYR	97	40.492				AAAA
ATOM	779		TYR	97	39.936		_		AAAA
ATOM	780		TYR	97	40.473				AAAA
ATOM	781	CD2	TYR	97	41.599				AAAA
ATOM	782	CE2	TYR	97	42.144	36.771			AAAA
ATOM	783	CZ	TYR	97	41.578	37.439			AAAA
ATOM	784	OH	TYR	97	42.122				AAAA
ATOM	785	С	TYR	97	38.510				AAAA
ATOM	786	0	TYR	97	39.41				AAAA
ATOM	787	N	ALA	98	37.243				AAAA
ATOM	788	CA	ALA	98	36.899				AAAA
ATOM	789	CB	ALA	98	35.56				AAAA
ATOM	790	С	ALA	98	36.77				AAAA
ATOM	791		ALA	98	36.93				
ATOM	792		MET	99	36.53	8 34.09	y 4.2.∪0≀ -	. 1.00 10.04	•
			•						

					_				
ATOM	793	CA	MET	99	36.295	32.643	42.117	1.00 17.60	AAAA
	794	CB	MET	99	35.864	32.137	40.736	1.00 17.05	AAAA
ATOM						31.824	39.793	1.00 11.16	AAAA
MOTA	795	CG	MET	99	36.999				
MOTA	796	SD	MET	99	36.314	31.698	38.113	1.00 16.54	AAAA
ATOM	797	CE	MET	99	35.165	30.295	38.312	1.00 17.83	AAAA
ATOM	798	C	MET	99	37.432	31.800	42.650	1.00 18.98	AAAA
ATOM	799	ō	MET	99	37.197	30.753	43.251	1.00 18.21	AAAA
				100	38.670	32.216	42.420	1.00 12.87	AAAA
MOTA	800	N	PHE					1.00 17.13	AAAA
MOTA	801	CA	PHE	100	39.774	31.439	42.987		
MOTA	802	CB	PHE	100	40.559	30.681	41.917	1.00 15.23	AAAA
MOTA	803	CG	PHE	100	41.647	29.834	42.492	1.00 15.20	AAAA
ATOM	804	CD1		100	41.342	28.638	43.140	1.00 22.96	AAAA
		CD2		100	42.972	30.282	42.488	1.00 17.12	AAAA .
MOTA	805							1.00 19.23	AAAA
ATOM	806	CE1		100	42.341	27.901	43.782		
MOTA	807	CE2	PHE	100	43.974	29.552	43.129	1.00 16.99	AAAA
ATOM	808	CZ	PHE	100	43.658	28.360	43.779	1.00 17.78	AAAA
ATOM	809	С	PHE	100	40.755	32.305	43.774	1.00 20.54	AAAA
	810	ō	PHE	100	41.088	31.990	44.912	1.00 21.45	AAAA
MOTA				101	41.219	33.401	43.187	1.00 18.02	AAAA
ATOM	811	N	THR						AAAA
MOTA	812	CA	THR	101	42.177	34.245	43.902	1.00 15.25	
MOTA	813	CB	THR	101	42.715	35.341	42.976	1.00 16.33	AAAA
MOTA	814	OG1	THR	101	43.386	34.720	41.870	1.00 16.01	AAAA
ATOM	815	CG2	THR	101	43.706	36.226	43.697	1.00 16.31	AAAA
ATOM	816	C	THR	101	41.567	34.860	45.160	1.00 14.12	AAAA
				101	42.110	34.707	46.244	1.00 16.86	AAAA
MOTA	817	0	THR		40.435	35.541	45.008	1.00 13.77	AAAA
ATOM	818	N	GLY	102					
ATOM	819	CA	GLY	102	39.770	36.145	46.156	1.00 16.29	AAAA
ATOM	820	С	GLY	102	39.330	35.065	47.133	1.00 16.75	AAAA
ATOM	821	0	GLY	102	39.502	35.202	48.338	1.00 14.48	AÁAA
ATOM	822	N	SER	103	38.752	33.986	46.615	1.00 16.24	AAAA
	823	CA	SER	103	38.315	32.890	47.488	1.00 16.72	AAAA
MOTA					37.567	31.821	46.684	1.00 15.97	AAAA
ATOM	824	CB	SER	103				1.00 26.86	AAAA
ATOM	825	OG	SER	103	36.339	32.349	46.197		
ATOM	826	С	SER	103	39.494	32.264	48.218	1.00 17.88	AAAA
ATOM	827	0	SER	103	39.405	31.974	49.419	1.00 14.17	AAAA
ATOM	828	N	SER	104	40.604	32.057	47.515	1.00 11.40	AAAA
ATOM	829	CA	SER	104	41.780	31.484	48.181	1.00 17.61	AAAA
			SER	104	42.888	31.206	47.160	1.00 15.89	AAAA
ATOM	830	CB			42.525	30.102	46.362	1.00 27.82	AAAA
ATOM	831	OG	SER	104					AAAA
MOTA	832	С	SER	104	42.332	32.404	49.271	1.00 17.02	
ATOM	833	0	SER	104	42.867	31.958	50.286	1.00 15.37	AAAA
MOTA	834	N	LEU	105	42.206	33.698	49.052	1.00 17.10	AAAA
ATOM	835	CA	LEU	105	42.709	34.652	50.016	1.00 16.95	AAAA
ATOM	836	CB	LEU	105	42.728	36.037	49.365	1.00 18.44	AAAA
			LEU	105	43.613	37.108	49.981	1.00 29.88	AAAA
MOTA	837	CG				36 631	49.959	1.00 20.25	AAAA
ATOM	838		LEU	105	45.086				
atom	839	CD2	LEU	105	43.438	38 418	49.175	1.00 29.39	AAAA
ATOM	840	С	LEU	105	41.837	34 637	51.282	1.00 14.81	AAAA
MOTA	841	0	LEU	105	42.334	34.703	52.404	1.00 17.74	AAAA
ATOM	842	N	ALA	106	40.532	34.531	51.095	1.00 19.28	AAAA
ATOM	843	CA	ALA	106	39.601	34.493	52.224	1.00 12.39	AAAA
					38.140	34.574	51.704	1.00 11.58	AAAA
MOTA	844	CB	جلہ	106			53.023	1.00 14.79	AAAA
ATOM	845	C	ALA	106	39.807	33.210			
ATOM	846	0	ALA	106	39.704	33.203	54.250	1.00 13.58	AAAA
MOTA	847	N	THR	107	40.114	32.128	52.318	1.00 13.67	AAAA
ATOM	848	CA	THR		40.314	30.819	52.956	1.00 13.21	AAAA
	849	CB	THR		40.187	29.708	51.902	1.00 14.95	AAAA
MOTA					38.868	29.792	51.334	1.00 15.72	AAAA
MOTA	850	OG1							AAAA
ATOM ·	851	CG2			40.422	28.311	52.511		
ATCM	852	С	THR		41.649	30.751	53.687	1.00 15.80	AAAA
ATOM	853	0	THR		41.734	30.206	54.792	1.00 15.63	AAAA
ATOM	854	N	GLY		42.696	31.294	53.082	1.00 14.08	AAAA
	855	CA	GLY		43.968	31.298	53.765	1.00 14.62	AAAA
ATOM					43.801	32.119	55.041		AAAA
ATOM	856	C	GLY						AAAA
ATOM	857	0	GLY		44.417	31.813			AAAA
ATCM	858	N	SER	109	42.963	33.158	54.988	1.00 15.26	MAAA

Figure 16-14

ATOM	859	CA	SER	109	42.727	34.020	56.153	1.00 14.54	AAAA
ATOM	860	CB	SER	109	41.906	35.248	55.737	1.00 15.58	AAAA
	861	OG	SER	109	42.627	36.045	54.809	1.00 16.97	AAAA
ATOM				109	42.037	33.264	57.297	1.00 15.56	AAAA
ATOM	862	C	SER		42.189	33.600	58.487	1.00 17.00	AAAA
ATOM	863	0	SER	109	41.261	32.247	56.944	1.00 14.37	AAAA
MOTA	864	Ŋ	THR	110		31.435		1.00 12.89	AAAA
MOTA	865	CA	THR	110	40.608		57.957		ሕጻል ሕጻል
MOTA	866	CB	THR	110	39.452	30.628	57.360	1.00 14.54	
ATOM	867	OG1	THR	110	38.346	31.519	57.163	1.00 18.11	AAAA
MOTA	868	CG2	THR	110	39.061	29.452	58.278	1.00 12.91	AAAA
ATOM	869	С	THR	110	41.633	30.524	58.601	1.00 18.44	AAAA
MOTA	870	0	THR	110	41.574	30.302	59.806	1.00 16.30	AAAA
MOTA	871	N	VAL	111	42.584	30.013	57.816	1.00 15.20	AAAA
MOTA	872	CA	VAL	111	43.514	29.180	58.403	1.00 20.45	AAAA
MOTA	873	CB	VAL	111	44.517	28.514	57.323	1.00 20.02	AAAA
ATOM	874	CG1	VAL	111	45.652	27.765	58.005	1.00 21.79	AAAA
ATOM	875	·CG2	VAL	111	43.697	27.537	56.482	1.00 19.07	AAAA
ATOM	876	C	VAL	111	44.456	30.075	59.327	1.00 18.21	AAAA
ATOM	877	0	VAL	111	44.838	29.672	60.431	1.00 18.65	AAAA
ATOM	878	N	GLN	112	44.731	31.302	58.890	1.00 16.82	AAAA
ATOM	879	CA	GLN	112	45.493	32.232	59.719	1.00 20.13	AAAA
ATOM	880	CB	GLN	112	45.751	33.540	58.970	1.00 22.39	AAAA
MOTA	881	CG	GLN	112	46.593	33.360	57.723	1.00 21.17	AAAA
MOTA	882	CD	GLN	112	46.797	34.651	56.982	1.00 24.82	AAAA
MOTA	883		GLN	112	47.772	35.381	57.219	1.00 25.62	AAAA
ATOM	884	NE2	GLN	112		. 34.963	56.091	1.00 13.16	አጸጸአ
ATOM	885	C	GLN	112	44.743	32.516	61.012	1.00 23.99	AAAA
MOTA	886	Õ	GLN	112	45.340	32.593	62.079	1.00 17.94	AAAA
MOTA	887	Ŋ	ALA	113	43.431	32.700	60.924	1.00 15.60	AAAA
ATOM	-888	CA	ALA	113	42.653	32.941	62.138	1.00 15.04	AAAA
ATOM	889	CB	ALA	113	41.191	33.138	61.802	1.00 18.65	AAAA
ATOM	890	c	ALA	113	42.807	31.751	63.083	1.00 14.84	AAAA
ATOM	891	ō.	ALA	113	42.941	31.909	64.296	1.00 21.05	AAAA
ATOM	892	N	ILE	114	42.767	30.550	62.534	1.00 16.45	AAAA
ATOM	893	CA	ILE	114	42.919	29.383	63.389	1.00 15.38	AAAA
ATOM	894	CB	ILE	114	42.600	28.100	62.637	1.00 15.22	AAAA.
ATOM	895		ILE	114	42.888	26.893	63.537	1.00 15.72	AAAA
ATOM	896		ILE	114	41.110	28.112	62.244	1.00 19.28	AAAA
ATOM	897	CD1		114	40.744	27.038	61.191	1.00 13.43	AAAA
ATOM	898	С	ILE	114	44.329	29.318	63.968	1.00 18.02	AAAA
ATOM	899	0	ILE	114	44.508	28.998	65.156	1.00 20.38	AAAA
ATOM	900	N	GLU	115	45.328	29.629	63.144	1.00 15.27	ሕ A AA
ATOM	901	CA	GLU	115	46.726	29.626	63.614	1.00 21.48	AAAA
ATOM	902	CB	GLU	115	47.690	30.080	62.506	1.00 21.76	AAAA
ATOM	903	CG	GLU	115	47.884	29.080	61.386	1.00 15.78	AAAA
MO 4	904	CD	GLU	115	48.670	29.648	60.211	1.00 20.04	AAAA
A COM	905	OE1	GLU	115	49.051	30.843	60.239	1.00 21.48	AAAA
ALOM	906		GLU	115	48.901	28.902	59.241	1.00 26.59	AAAA
MOTA	907	С	GLU	115	46.877	30.559	64.814	1.00 23.55	AAAA
ATOM	908	0	GLU	115	47.509	30.212	65.815	1.00 23.03	AAAA
MOTA	909	N	GLU	116	46.295	31.748	64.703	1.00 22.73	AAAA
MOTA	910	CA	GLU	116	46.367	32.735	65.774	1.00 20.54	AAAA
ATOM	911	CB	GLU	116	45.744	34.044	65.320	1.00 18.40	AAAA
MOTA	. 912	CG	GLU	116	46.562	34.765	64.279	1.00 19.76	AAAA
MOTA	913	CD	GLU	116	47.985	34.998	64.756	1.00 27.24	AAAA
ATOM	914		GLU	116	48.164	35.630	65.815	1.00 18.44	AAAA
ATOM	915		GLU	116	48.919	34.543	64.078	1.00 23.17	AAAA
MOTA	916	c	GLU	116	45.682	32.253	67.034	1.00 25.39	аааа
MOTA	917	Õ	GLU	116	46.207	32.427	68.137	1.00 22.87	AAAA
ATOM	918	Ŋ	PHE	117	44.510	31.647	66.872	1.00 18.78	AAAA
ATOM	919	CA	PHE	117	43.778	31.139	68.019	1.00 22.11	AAAA
ATOM	920	CB	PHE	117	42.451	30.530		1.00 23.14	AAAA
ATOM	921	CG	PHE	117	41.603	30.054	68.728	1.00 24.06	AAAA
ATOM	922		PHE	117	40.880	30.961	69.493	1.00 19.67	AAAA
. ATOM	923		PHE	117	41.559	28.701		1.00 24.08	AAAA
ATOM	924		PHE	117	40.115	30.531		1.00 23.68	AAAA

	025	CES	DUC	117	40.799	28.262	70.156	1.00 24.04	AAAA
ATOM	925	CE2	PHE	117					
ATOM	926	CZ	PHE	117	40.078	29.179	70.915	1.00 19.62	AAAA
	927	С	PHE	117	44.587	30.068	68.747	1.00 23.87	AAAA
MOTA					-				
ATOM	928	0	PHE	117	44.613	30.031	69.979	1.00 24.40	AAAA
ATOM	929	N	LEU.	118	45.238	29.194	67.981	1.00 21.09	AAAA
						28:113	68.549	1.00 20.73	AAAA
ATOM	930	CA	LEU	118	46.025				
ATOM	931	CB	LEU	118	46.358	27.075	67.480	1.00 17.90	AAAA
						26.264	66.984	1.00 26.20	AAAA
MOTA	932	CG	LEU	118	45.148				
MOTA	933	CD1	LEU	118	45.591	25.288	65.924	1.00 34.23	AAAA
					44.520	25.499	68.139	1.00 27.16	AAAA
ATOM	934	CD2		118					
ATOM	935	С	LEU	118	47.290	28.601	69.238	1.00 26.49	AAAA
			LEU	118	47.908	27.856	69.996	1.00 26.34	AAAA
MOTA	936								
MOTA	937	N	LYS	119	47.672	29.848	68.975	1.00 28.92	AAAA
ATOM	938	CA	LYS	119	48.835	30.459	69.624	1.00 28.53	AAAA
					49.392	31.616	68.805	1.00 30.15	AAAA
MOTA	939	CB	LYS	119					
ATOM	940	CG	LYS	119	49.915	31.267	67.437-	1.00 35.14	AAAA
				119	50.291	32.549	66.716	1.00 28.98	AAAA
ATOM	941	CD	LYS						
MOTA	942	CE	LYS	119	50.905	32.262	65.380	1.00 31.07	AAAA
	943	NZ	LYS	119	51.195	33.551	64.745	1.00 22.46	AAAA
MOTA							70.932	1.00 35.74	AAAA
MOTA	944	С	LYS	119	48.335	31.053			
MOTA	945	0	LYS	119	49.117	31.541	71.750	1.00 27.10	AAAA
					47.018	31.050	71.103	1.00 25.20	AAAA
MOTA	946	N	GLY	120					
MOTA	947	CA	GLY	120	46.445	31.605	72.309	1.00 30.18	AAAA
		C	GLY	120	45.913	33.007	72.122	1.00 31.91	AAAA
ATOM	948								AAAA
MOTA	949	0	GLY	120	45.540	33.665	73.094	1.00 34.76	
ATOM	950	N	ASN	121	45.889	33.495	70.887	1.00 20.56	AAAA
					45.353	34.825	70.681	1.00 25.58	AAAA
MOTA	951	CA	ASN	121					
ATOM	952	CB	ASN	121	46.278	35.634	69.785	1.00 29.99	AAAA
	953	CG	ASN	121	47.641	35.827	70.427	1.00 24.43	AAAA
ATOM									AAAA
ATOM '	954	OD1	ASN	121	48.396	34.874	70.588	1.00 54.63	
MOTA	955	พท2	ASN	121	47.944	37.045	70.817	1.00 41.69	AAAA
					43.941	34.759	70.135	1.00 18.85	AAAA
MOTA	956	С	ASN	121					
ATOM	957	0	ASN	121	43.421	33.675	69.899	1.00 24.77	AAAA
	958	N.	VAL	122	43.310	35.918	69.991	1.00 19.55	AAAA
MOTA								1.00 22.90	AAAA
ATOM	959	CA	VAL	122	41.936	35.994	69.499		
ATOM	960	CB	VAL	122	41.053	36.832	70.449	1.00 31.47	AAAA
					39.649	37.006	69.851	1.00 31.52	AAAA.
MOTA	961		VAL	122					
ATOM	962	CG2	VAL	122	40.986	36.154	71.810	1.00 32.50	AAAA
	963	С	VAL	122	41.953	36.632	68.130	1.00 16.87	AAAA
ATOM								1.00 24.08	AAAA
ATOM	964	0	VAL	122	42.518	37.710	67.938		
ATOM	965	N	ALA	123	41.321	35.983	67.159	1.00 18.67	AAAA
				123	41.360	36.532	65.821	1.00 10.18	AAAA
ATOM	966	CA	λLA						AAAA
ATOM	967	CB	ALA	123	42.346	35.743	64.990	1.00 19.04	
ATOM	968	С	ALA	123	40.000	36.551	65.131	1.00 13.72	AAAA
					39.108	35.761	65.439	1.00 20.78	AAAA
ATCM	969	0	ALA	123					
ATOM	970	N	PHE	124	39.871	37.457	64.18C	1.00 12.92	AAAA
ATOM		Ch	PHE	124	38.649	37.610	63.401	1.00 14.67	AAAA
	971	CA					63.85€	1.00 14.67	AAAA
ATCM	972	CB	PHE	124	37.904	38.878			
ATOM	973	CG	PHE	124	36.660	39.209	63.049	1.00 20.28	AAAA
			PHE	124	35.811	38.209	62.587	1.00 18.56	AAAA
ATOM	974								AAAA
MOTA	975	CD2	PHE	124	36.286	40.545	62.843		
ATOM	976	CEI	PHE	124	34.609	38.532	61.937	1.00 18.75	AAAA
						40.875	62.193	1.00 20.18	AAAA
MOTA	977	CE2	PHE	124	35.072				
ATOM	978	CZ	PHE	124	34.242	39.867	61.744	1.00 21.57	AAAA
			PHE	124	39.016	37.712	61.930	1.00 22.60	AAAA
MOTA	979	C						1.00 19.22	AAAA
ATOM	980	0	PHE	124	39.823	38.558	61.535		
ATOM	981	N	ASN	125	38.449	36.820	61.126	1.00 19.39	AAAA
				-	38.651	36.858	59.691	1.00 16.80	AAAA
ATCM	982	CA	ASN	125					AAAA
MOTA	983	CB	ASN	125	39.122	35.507	59.150	1.00 15.71	
		CG	ASN	125	39.063	35.469	57.649	1.00 12.84	AAAA
ATCM	984								AAAA
MOTA	985	OD1	ASN	125	39.216	36.508	57.006	1.00 14.91	
ATCM	986	כחמ	ASN	125	38.853	34.272	57.065	1.00 16.21	AAAA
					37.315	37.210	59.038	1.00 16.22	AAAA
ATCM	987	C	ASN	125					AAAA
ATOM	988	0	ASN	125	36.502	36.330		1.00 15.28	
	989	Ŋ	PRO	126	37.071	38.502	58.775	1.00 14.84	AAAA
atom									AAAA
ATCM	990	CD	PRO	126	37.908	39.684	29.032	1.00 10.10	-
			•						-

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			126	35.811	38.910	58.156	1.00 17.33	hhhh
ATOM	991	CA PRO	126				1.00 16.32	AAAA
MOTA	992	CB PRO	126		40.434			
ATOM	993	CG . PRO	126	37.416	40.655	58.008	1.00 20.95	AAAA
			126	35.549	38.359	56.752	1.00 13.78	AAAA
MOTA	994	_		34.404	38.291	56.322	1.00 17.03	AAAA
MOTA	995	5 PRO	126			56.042	1.00 14.57	AAAA
ATOM -	996	N ALA	127	36.607	37.972			
MOTA	997	CA ALA	127	36.463	37.443	54.691	1.00 17.37	AAAA
			127	37.816	37.540	53.930	1.00 14.48	AAAA
MOTA	998			35.982	35.998	54.702	1.00 19.77	AAAA
MOTA	999	C ALA	127			53.688	1.00 15.62	AAAA
ATOM	1000	O ALA	127	35.490	35.500			AAAA
ATOM	1001	N GLY	128	36.111	35.339	55.849	1.00 13.54	
		CA GLY	.128	35.725	33.939	55.971	1.00 13.53	AAAA
MOTA	1002		128	34.234	33.679	56.101 ⁻	1.00 14.49	AAAA
ATOM	1003	C GLY				56.017	1.00 15.65	AAAA
MOTA	1004	O GLY	128	33.414	34.585			AAAA
MOTA	1005	N GLY	129	33.883	32.420	56.314	1.00 13.35	
	1006	CA GLY	129	32.487	32.058	56.446	1.00 16.28	-AAAA
MOTA			129	31.754	31.831	55.130	1.00 15.69	AAAA
MOTA	1007	C GLY			32.021	55.072	1.00 16.10	AAAA
MOTA	1008	O GLY	129	30.543			1.00 15.00	AAAA
ATOM	1009	N MET	130	32.479	31.448	54.079		
	1010	CA MET	130	31.879	31.163	52.757	1.00 13.35	AAAA
ATOM		_	130	32.969	31.215	51.689	1:00 12.20	AAAA
MOTA	1011			33.680	32.573	51.731	1.00 17.03	AAAA
ATOM	1012	CG MET	130			50.425	1.00 15.41	AAAA
MOTA	1013	SD MET	130	34.863	32.877		1.00 15.41	AAAA
ATOM	1014	CE MET	130	33.752	32.973	49.073	1.00 46.82	
		C MET	130	31.296	29.756	52.885	1.00 12.49	AAAA
MOTA	1015			31.785	28.789	52.297	1.00 19.54	AAAA
MOTA	1016	O MET	130		29.695	53.617	1.00 16.24	AAAA
ATOM	1017	N HIS	131	30.188			1.00 13.80	AAAA
MOTA	1018	CA HIS	131	29.556	28.448	54.014		
ATOM	1019	CB HIS	131	28.772	28.694	55.316	1.00 15.91	AAAA
	1020	CG HIS	131	27.606	29.625	55.175	1.00 13.08	AAAA
ATOM				26.712	30.063	56.096	1.00 12.46	AAAA
ATOM	1021	CD2 HIS	131		30.190	53.976	1.00 22.48	AAAA
ATOM	1022	ND1 HIS	131	27.225			1.00 16.56	AAAA
MOTA	1023	CE1 HIS	131	26.148	30.936	54.166		
	1024	NE2 HIS	131	25.817	30.875	55.442	1.00 23.56	AAAA
MOTA		C HIS	131	28.673	27.663	53.066	1.00 13.69	AAAA
ATOM	1025			28.125	26.658	53.470	1.00 17.21	AAAA
ATOM	1026	O HIS	131			51.830	1.00 14.51	AAAA
ATOM	1027	N HIS	132	28.523	28.115		1.00 20.19	
MOTA	1028	CA HIS	132	27.669	27.400	50.887		AAAA
ATOM	1029	CB HIS	132	26.863	28.416	50.054	1.00 17.26	
	1030	CG HIS	132	25.748	29.070	50.810	1.00 16.85	AAAA
ATOM			132	24.787	28.542	51.604	1.00 13.74	AAAA
MOTA	1031	CD2 HIS		25.497	30.424	50.756	1.00 24.80	AAAA
ATOM	1032	ND1 HIS	132		_	51.486	1.00 12.68	AAAA
ATOM	1033	CE1 HIS	132	24.429	30.700			AAAA
MOTA	1034	NE2 HIS	132	23.980	29.576	52.010	1.00 28.65	
	1035	C HIS	_	28.372	26.412	49.946	1.00 16.89	AAAA
MOTA			132	27.731	25.487	49.460	1.00 14.58	AAAA
ATOM	1036) HIS		29.669	26.580	49.689	1.00 16.79	AAAA
MOTA	1037	:1 ALA				48.740	1.00 13.76	AAAA
ATCM	1038	CA, ALA	133	30.338	25.680		1.00 13.70	AAAA
ATOM	1039	CB ALA	133	31.738	26.194	48.412	1.00 14.95	
		C ALA		30.418	24.219	49.179	1.00 18.80	AAAA
ATOM	1040			30.557	23.939		1.00 16.86	AAAA
MOTA	1041	ALA C			23.306		1.00 13.76	AAAA
ATOM	1042	N PHE		30.306			1.00 19.77	AAAA
ATOM	1043	CA PHE	134	30.378	21.868		1.00 19.77	AAAA
	1044	CB PHE		29.311	21.132		1.00 15.59	
MOTA				27.917	21.525	47.975	1.00 17.22	AAAA
MOTA	1045			27.135	22.259		1.00 17.88	AAAA
MOTA	1046	CD1 PHE	134					AAAA
MOTA	1047	CD2 PHE	134	27.392	21.187			AAAA
ATOM	1048	CE1 PHE	134	25.836	22.653			
		CE2 PHE		26.099	21.578	49.585	1.00 17.64	AAAA
MOTA	1049			25.323	22.308			AAAA
ATOM	1050	CZ PHE			21.354			AAAA
ATOM	1051	C PHE		31.763				AAAA
MOTA	1052	O PHE		32.547	22.049			AAAA
	1053	N LYS		32.060	20.124			
MOTA				33.369	19.551	48.269		aaaa
ATOM	1054			33.360	18.070		1.00 21.29	AAAA
MOTA	1055							AAAA
ATOM	1056	CG LYS	135	34.640	17.300	, =0.300		•

ATOM	1057	CD	LYS	135	34.597	15.867	48.977	1.00 30.26	AAAA
MOTA	1058	CE	LYS	135	34.862	15.805	50.486	1.00 35.01	AAAA
MOTA	1059	NZ	LYS	135	36.304	16.023	50.895	1.00 20.61 1.00 16.60	AAAA AAAA
MOTA	1060	C	LYS	135	33.854	19.687 20.020	46.836 46.584	1.00 17.24	AAAA
ATOM	1061	0	LYS	135 136	35.020 32.944	19.483	45.893	1.00 18.01	AAAA
MOTA	1062	N CA	SER SER	136	33.301	19.528	44.490	1.00 15.26	AAAA
MOTA MOTA	1063 1064	CB	SER	136	33.339	18.094	43.940	1.00 18.07	AAAA
ATOM	1065	OG	SER	136	34.135	17.261	44.762	1.00 22.22	AAAA
ATOM	1066	c	SER	136	32.345	20.355	43.658	1.00 15.40	AAAA
ATOM	1067	0	SER	136	32.162	20.071	42.475	1.00 18.77	AAAA
ATOM	1068	N	ARG	137	31.754	21.401	44.237	1.00 19.71	AAAA
MOTA	1069	CA	ARG	137	30.805	22.216	43.482	1.00 17.29 1.00 24.19	AAAA AAAA
MOTA	1070	CB	ARG	137	29.481	21.448	43.366 42.937	1.00 24.19	AAAA
MOTA	1071	CG	ARG	137	28.290 27.026	22.273 21.424	42.937	1.00 32.36	AAAA
ATOM	1072	CD	ARG	137 137	26.951	20.493	41.862	1.00 50.95	AAAA
ATOM	1073 1074	NE CZ	ARG ARG	137	26.392	20.781	40.691	1.00 50.38	AAAA
MOTA MOTA	1074		ARG	137	25.854	21.976	40.485	1.00 45.26	AAAA
MOTA	1076		ARG	137	26.375	19.876	39.722	1.00 55.31	AAAA
ATOM	1077	С	ARG	137	30.537	23.595	44.095	1.00 16.14	AAAA
ATOM	1078	0	ARG	137	30.439	23.711	45.308	1.00 16.88	AAAA
MOTA	1079	N	ALA	138	30.395	24.621	43.252	1.00 18.07	AAAA
ATOM	1080	CA	ALA	138	30.117	25.976	43.735	1.00 21.48	AAAA
MOTA	1081	CB	ALA	138	30.460	27.024	42.631	1.00 16.55 1.00 21.04	AAAA AAA A
ATOM	1082	C	ALA	138	28.642 27.798	26.090 25.339	44.135 43.641	1.00 21.04	AAAA
MOTA	1083	0	ALA	138 139	28.321	27.019	45.029	1.00 13.83	AAAA
ATOM	1084 1085	N CA	ASN ASN	139	26.952	27.158	45.468	1.00 12.92	AAAA
MOTA MOTA	1085	CB	ASN	139	26.566	25.899	46.274	1.00 13.14	AAAA
MOTA	1087	CG	ASN	139	25.162	25.961	46.832	1.00 20.34	AAAA
ATOM	1088		ASN	139	24.186	26.068	46.086	1.00 19.76	AAAA
ATOM	1089	ND2	ASN	139	25.048	25.881	48.157	1.00 16.36	AAAA
ATOM	1090	С	ASN	139	26.756	28.409	46.315	1.00 20.92	AAAA
ATOM	1091	0	ASN	139	27.603	28.738	47.148	1.00 16.81 1.00 19.30	AAA A AAAA
MOTA	1092	N	GLY	140	25.644	29.105 30.295	46.086 46.864	1.00 19.30	AAAA
ATOM	1093	CA	GLY	140	25.330 26.393	31.378	46.888	1.00 20.19	AAAA
ATOM	1094 1095	C O	GLY GLY	140 140	26.653	31.968	47.943	1.00 18.77	AAAA
ATOM ATOM	1095	Ŋ	PHE	141	26.996	31.649	45.733	1.00 15.52	AAAA
ATOM	1097	CA	PHE	141	28.034	32.675	45.600	1.00 20.71	AAAA
ATOM	1098	CB	PHE	141	27.711	33.952	46.388	1.00 20.03	AAAA
ATOM	1099	CG	PHE	141	26.355	34.544	46.127	1.00 28.32	AAAA
ATOM	1100		PHE	141	25.855	35.526	46.997	1.00 24.25 1.00 30.11	AAAA AAAA
ATOM	1101		PHE	141	25.589	34.170 36.116	45.029 46.775	1.00 30.11	AAAA
ATOM	1102		PHE	141 141	24.628 24.346	34.766	44.801	1.00 21.6:	AAAA
ATOM	1103		PHE	141	23.870	35.741	45.677	1.00 24.4	AAAA
MOTA MOTA	1104 1105	CZ C	PHE	141	29.357	32.188	46.158	1.00 14.45	AAAA
ATOM	1105	o	PHE	141	30.336	32.914	46.111	1.00 16.39	AAAA
ATOM	1107	N	CYS	142	29.389	30.982	46.716		AAAA
ATOM	1108	CA	CYS	142	30.629	30.466	47.285	1.00 17.71	AAAA
MOTA	1109	· CB	CYS	142	30.347	29.845	48.659	1.00 13.95	AAAA
MOTA	1110	SG	CYS	142	29.606	30.985	49.846	1.00 16.63	AAAA AAAA
MOTA	1111	С	CYS	142	31.313	29.421	46.401	1.00 18.09 1.00 16.60	AAAA
MOTA	1112	0	CYS	142	30.647	28.527	45.856 46.272	1.00 18.60	AAAA
MOTA	1113	N	TYR	143	32.639 33.429	29.539 28.603	45.478	1.00 12.30	AAAA
ATOM	1114	CA	TYR	143 143	34.333	29.322	44.473	1.00 13.07	AAAA
ATOM	1115	CB	TYR TYR	143	33.614	30.338	43.612	1.00 15.80	AAAA
ATOM	1116 1117	CG	TYR	143	33.396	31.636	44.071	1.00 15.48	AAAA
atom atom	1117		TYR	143	32.740	32.589	43.270	1.00 11.99	AAAA
ATOM	1119		TYR	143	33.157	29.999	42.336	1.00 14.60	AAAA
ATOM	1120	CE2		143	32.501	30.935	41.532	1.00 10.74	AAAA AAAA
ATOM	1121	CZ	TYR	143	32.301	32.229	42.008	1.00 20.89	AAAA
ATOM	1122	ОН	TYR	143	31.698	33.177	41.208	1.00 18.87	anna

	1177	~	TYR	143	34.310	27.723		1.00 17.35	አ አአአ
ATOM	1123				34.581	26.574	46.013	1.00 16.67	AAAA
MOTA	1124		TYR	143			47.489	1.00 14.93	AAAA
ATOM	1125	N	ILE	144	34.763	28.262			
MOTA	1126	CA	ILE	144	35.599	27.500	48.408	1.00 14.17	AAAA
		_	ILE	144	37.018	28.069	48.440	1.00 14.87	AAAA
MOTA	1127				37.864	27.332	49.474	1.00 13.55	AAAA
ATOM	1128		ILE	144	-			1.00 16.98	AAAA
ATOM	1129	CG1	ILE	144	37.611	28.027	47.021		
	1130	CD1	TIF	144	39.052	28.537	46.901	1.00 17.42	AAAA
MOTA				144	34.959	27.615	49.788	1.00 17.22	AAAA
MOTA	1131	С	ILE			28.716	50.220	1.00 14.72	AAAA
ATOM	1132	Ο.	ILE	144	34.606			_	AAAA
ATOM	1133	N	ASN	145	34.798	26.486	50.474	1.00 13.46	
	1134	CA	ASN	145	34.170	26.493	51.797	1.00 16.09	AAAA
MOTA	_				33.401	25.178	51.988	1.00 14.50	AAAA
MOTA	1135	CB	ASN	1.45			53.148	1.00 15.64	AAAA
ATOM	1136	CG	ASN	145	32.428	25.239			AAAA
MOTA	1137	OD1	ASN	145	32.800	25.587	54.263	1.00 14.97	
		ND2		145	31.170	24.916	52.882	1.00 16.74	AAAA
MOTA	1138				35.266	26.639	52.873	1.00 15.04	AAAA
ATOM	1139	С	ASN	145			53.338	1.00 15.72	AAAA
MOTA	1140	0	ASN	145	35.812	25.637		1.00 12.34	AAAA
ATOM	1141	N	ASN	146	35.599	27.865	53.282		
		CA	ASN	146	36.685	28.006	54.262	1.00 15.31	AAAA
MOTA	1142				37.161	29.464	54.354	1.00 15.81	AAAA
ATOM	1143	CB	ASN	146			54.865	1.00 15.25	AAAA
MOTA	1144	CG	ASN	146	36.101	30.396		1.00 13.57	AAAA
ATOM	1145	001	ASN	146	36.113	30.757	56.034		
	-		ASN	146	35.156	30.775	53.996	1.00 10.85	AAAA
ATOM	1146				36.306	27.400	55.613	1.00 13.04	AAAA
ATOM	1147	С	ASN	146			56.314	1.00 14.76	AAAA
MOTA	1148	0	ASN	146	37.160	26.865		1.00 14.28	AAAA
ATOM	1149	N	PRO	147	35.025	27.489	56.016		
	1150	CD	PRO	147	33.817	28.175	55.515	1.00 7.62	AAAA
ATOM				147	34.750	26.843	57.307	1.00 13.51	AAAA
MOTA	1151	CA	PRO		33.251	27.058	57.482	1.00 14.44	AAAA
MOTA	1152	CB	PRO	147				1.00 12.32	AAAA
MOTA	1153	CG	PRO	147	33.056	28.436	56.827		
	1154	c	PRO	147	35.118	25.330	57.278	1.00 18.86	AAAA
MOTA			PRO	147	35.678	24.796	58.251	1.00 16.24	AAAA
MOTA	1155	0			34.818	24.642	56.171	1.00 15.01	AAAA
ATOM	1156	N	ALA	148			56.080	1.00 15.58	AAAA
MOTA	1157	CA	ALA	148	35.122	23.200		1.00 13.50	AAAA
ATOM	1158	СВ	ALA	148	34.402	22.561	54.882	1.00 12.93	
	1159	c	ALA	148	36.624	22.956	55.984	1.00 14.94	AAAA
MOTA				148	37.138	21.999	56.560	1.00 14.69	AAAA
MOTA	1160	0	ALA			23.817	55.263	1.00 12.49	AAAA
MOTA	1161	N	VAL	149	37.328			1.00 15.31	AAAA
ATOM	1162	CA	VAL	149	38.778	23.708	55.163		AAAA
	1163	CB	VAL	149	39.364	24.797	54.243	1.00 14.77	
ATOM				149	40.899	24.870	54.369	1.00 14.68	AAAA
ATOM	1164		VAL		38.981	24.501	52.808	1.00 12.50	AAAA
ATOM	1165	CG2	VAL	149			56.572	1.00 20.14	AAAA
ATOM	1166	С	VAL	149	39.323	23.887			AAAA
ATOM	1167	0	VAL	149	40.172	23.109	57.028	1.00 17.32	
			GLY	50	38.815	24.899	57.271	1.00 15.45	AAAA
ATOM	1168	1,1			39.284	25.168	58.622	1.00 20.96	AAAA
ATCM	1169	CA	GLY	-50	35.203		59.621	1.00 24.16	AAAA
ATOM	1170	C	GLY	₋ 50	39.030	24.053		1.00 21.20	AAAA
ATOM	1171	0	GLY	150	39.888	23.738		1.00 19.50	
			ILE	151	37.842	23.465	59.557	1.00 16.67	AAAA
ATCM	1172	11			37.490	22.375		1.00 19.56	AAAA
ATOM	1173	CA	ILE	151					AAAA
MCTA	1174	CB	ILE	151	35.992			1.00 10.10	AAAA
	1175	CG2		151	35.667	20.709		1.00 17.93	
ATOM				151	35.180	23.209	60.959	1.00 12.31	AAAA
ATOM	1176	CGI			33.686			1.00 18.71	AAAA
MOTA	1177	CDI	ILE	151					AAAA
MOTA	1178	С	ILE	151	38.352				AAAA
	1179	ō	ILE	151	38.796	20.472			
ATOM			GLU	152	38.599	20.861	. 58.888		AAAA
ATCM	1180	Ŋ			39.434				АААА
ATOM	1181	CA	GLU	152					AAAA
ATOM	1182	CB	GLU	152	39.362			1.00 20.21	AAAA
	1183		GLU	152	38.033				
ATOM			GLU	152	37.838	17.430	57.166	1.00 26.94	AAAA
ATCM	1184				36.720				aaaa
ATOM	1185		1 GLU						AAAA
ATOM	1186	OE:	2 GLU		38.800				AAAA
ATCM	1187		GLU	152	40.865			1.00 10.65	AAAA
			GLU		41.629	19.110	59.289	1.00 19.25	WWW
1.TOM	: 100		ں ہے				-		

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ATOM	1189	N	TYR	153	41	228	21.290	58.931	1.00 14.74	AAAA
ATOM	1190	CA	TYR	153	42	.574	21.672	59.350	1.00 17.71	AAAA
MOTA	1191	CB	TYR	153	42	.757	23.193	59.179	1.00 13.26	AAAA
	1192	CG	TYR	153		.059	23.727	59.729	1.00 16.36	AAAA
MOTA	1193		TYR	153		.234	23.726	58.967	1.00 18.41	AAAA
MOTA				153		.438	24.219	59.511	1.00 21.03	AAAA
MOTA	1194		TYR			1.115	24.220	61.028	1.00 21.16	AAAA
ATOM	1195	CD2		153			24.705	61.570	1.00 19.76	AAAA
MOTA	1196	CE2	TYR	153		5.288		60.824	1.00 25.97	AAAA
MOTA	1197	CZ	TYR	153		.440	24.711		1.00 23.37	AAAA
ATOM	1198	OH	TYR	153	_	7.571	25.235	61.410		AAAA
MOTA	1199	C	TYR	153 -		2.712	21.274	60.828	1.00 20.00	
ATOM	1200	0	TYR	153		3.722	20.698	61.247	1.00 19.61	AAAA
ATOM	1201	N	LEU	154	43	L.683	21.569	61.616	1.00 17.78	AAAA
ATOM	1202	CA	LEU	154	41	1.698	21.239	63.042	1.00 17.26	AAAA
ATOM	1203	CB	LEU	154	40	0.511	21.913	63.744	1.00 20.44	AAAA
ATOM	1204	CG	LEU	154	4 (0.636	23.434	63.942	1.00 19.57	AAAA
ATOM	1205		LEU	154	3 9	9.277	24.046	64.309	1.00 22.48	AAAA
	1206		LEU	154	4	1.692	23.709	65.044	1.00 20.84	AAAA
MOTA	1207	C	LEU	154		1.669	19.715	63.262	1.00 19.69	AAAA
MOTA		0	LEU	154		2.357	19.191	64.149	1.00 22.91	AAAA
MOTA	1208			155		0.878	18.996	62.469	1.00 20.88	AAAA
ATOM	1209	N	ARG	155		0.840	17.539	62.622	1.00 22.64	AAAA
MOTA	1210	CA	ARG			9.829	16.905	61.652	1.00 25.69	AAAA
MOTA	1211	CB	ARG	155			17.394	61.893	1.00 27.64	AAAA
MOTA	1212	CG	ARG	155		8.384		60.892	1.00 27.01	AAAA
MOTA	1213	CD	ARG	155		7.382	16.834	61.246	1.00 30.88	AAAA
MOTA	1214	NE	ARG	155		6.931	15.497		1.00 36.28	AAAA
MOTA	1215	CZ	ARG	155		6.135	14.753	60.488		AAAA
MOTA	1216	NH1	ARG	155		5.705	15.218	59.318	1.00 26.96 1.00 27.33	AAAA
MOTA	1217	NH2	ARG	155		5.737	13.562	60.923		AAAA
MOTA	1218	С	ARG	155		2.235	16.966	62.390	1.00 28.00	AAAA
MOTA	1219	0	ARG ·	155		2.674	16.070	63.119	1.00 28.05	
ATOM	1220	N	LYS	156		2.949	17.486	61.395	1.00 23.53	AAAA
ATOM	1221	CA	LYS	156	4	4.290	16.977	61.128	1.00 26.79	AAAA
ATOM	1222	CB	LYS	156	4	4.854	17.558	59.824	1.00 26.01	AAAA
ATOM	1223	CG	LYS	156	4	6.213	16.955	59.444	1.00 29.70	AAAA
MOTA	1224	CD	LYS	156	4	6.632	17.308	58.035	1.00 28.77	AAAA
ATOM	1225	CE	LYS	156	. 4	5.685	16.692	5 7 .005	1.00 39.79	AAAA
ATOM	1226	NZ	LYS	156	4	5.671	15.192	57.058	1.00 36.33	AAAA
ATOM	1227	C	LYS	156	4	5.233	17.260	62.299	1.00 26.40	AAAA
MOTA	1228	ō	LYS	156	4	6.188	16.511	62.529	1.00 26.19	AAAA
MOTA	1229	N	LYS	157	4	4.960	18.337	63.032	1.00 22.50	AAAA
ATOM	1230	CA	LYS	157	4	5.757	18.709	64.204	1.00 21.12	AAAA
	1231	СВ	LYS	157	4	5.535	20.181	64.591	1.00 28.95	AAAA
ATOM	1232	CG	LYS	157		6.160	21.215	63.652	1.00 25.94	AAAA
ATCM	1233	CD	LYS	157		7.669	21.067	63.575	1.00 35.16	AAAA
ATOM	1233	CE	LYS	157		8.281	22.099	62.627	1.00 39.24	AAAA
ATCM				157		9.742	21.869	62.406	1.00 40.01	4AAA
ATCM	1235	NZ	LYS	157		5.421	17.825		1.00 22.98	AAAA
MOTA	1236	С	LYS			6.085			1.00 27.77	AAAA
ATCM	1237	0	LYS	157		4.392			1.00 26.49	AAAA
ATCH	1238	N	GLY	158						AAAA
ATOM	1239	CA	GLY	158		4.023			1.00 33.13	AAAA
ATCM	1240	C	GLY	158		12.771	_			AAAA
MOTA	1241	0	GLY	158		2.421				AAAA
ATCM	1242	N	PHE	159		12.085				AAAA
ATOM	1243	CA	PHE	159		10.866				AAAA
ATOM	1244	CB	PHE	159		10.410		67.186		AAAA
ATOM	1245	CG	PHE	159		11.264				AAAA
ATOM	1246	CD1	PHE	159		42.43,9				
ATOM	1247		PHE	159		10.926				AAAA aaaa
ATOM	1248		PHE	159	4	13.264				AAAA
ATCM	1249		PHE	159	4	41.738				AAAA
ATCM	1250	CZ	PHE	159	4	42.907	22.205	69.135		AAAA
	1251	c	PHE	159		39.792		67.120	1.00 28.02	AAAA
ATOM	1252	0	PHE	159		39.639			1.00 21.14	AAAA
ATCM	1253	N	LYS			39.056	_		1.00 24.79	AAAA
ATCM	1253	CA				38.011			1.00 24.26	AAAA
ATOM	1404				,	· · 	• =	-		•

				20 200	14.098	68.668	1.00 22.86	Anna
ATOM	1255	CB LYS	160	38.360				
	1256	CG LYS	160	39.625	13.424	68.157	1.00 43.16	AAAA
MOTA						69.141	1.00 54.05	AAAA
MOTA	1257	CD LYS	160	40.222	12.417			
	1258	CE LYS	160	39.236	11.343	69.577	1.00 62.87	አ ልልል
MOTA					11.890	70.446	1.00 68.11	AAAA
ATOM	1259	NZ LYS	160	38.154			1.00 21.12	AAAA
	1260	C LYS	160	36.599	15.822	68.225		
-MOTA				35.632	15.072	68.051	1.00 22.43	AAAA
ATOM	1261	O LYS	160					AAAA
	1262	N ARG	161	36.476	17.042	68.733	1.00 19.68	
MOTA					17.594	69.073	1.00 20.84	AAAA
MOTA	1263	CA ARG	.161	35.164				AAAA
•	1264	CB ARG	161	34.865	17.467	70.572	1.00 26.02	
MOTA					16.031	71.080	1.00 28.47	AAAA
ATOM	1265	CG ARG	161	34.715				AAAA
	1266	CD ARG	161	34.213	16.025	72.523	1.00 30.38	
ATOM		-		35.098	16.734	73.445	1.00 32.99	AAAA
MOTA	1267	NE ARG	161			_	1.00 40.49	AAAA
ATOM	1268	CZ ARG	161	36.272	16.278	73.883		
			161	36.724	15.094	73.489	1.00 31.49	AAAA
ATOM	1269	NH1 ARG					1.00 38.54	- AAAA
ATOM	1270	NH2 ARG	161	37.003	17.014	74.712		
			161	35.171	19.060	68.680	1.00 18.98	AAAA
MOTA	1271	C ARG				69.460	1.00 23.57	AAAA
MOTA	1272	O ARG	161	35.552	19.932			
			162	34.743	19.332	67.458	1.00 19.82	AAAA
MOTA	1273					66.947	1.00 17.81	AAAA
MOTA	1274.	CA ILE	162	34.744	20.700			
	-		162	35.522	20.717	65.626	1.00 18.33	AAAA
MOTA	1275					65.042	1.00 13.65	AAAA
MOTA	1276	CG2 ILE	162	35.542	22.110			
		CG1 ILE	162	36.937	20,200	65.895	1.00 18.15	AAAA
ATOM	1277				19.852	64.670	1.00 22.52	AAAA
ATOM	1278	CD1 ILE	162	37.722				AAAA
	1279	C ILE	162	33.316	21.184	66.724	1.00 14.71	
MOTA					20.492	66.126	1.00 17.99	AAAA
MOTA	1280	0 ILE	162	32.520				AAAA
	1281	N LEU	163	32.996	22.374	67.217	1.00 16.93	
MOTA				31.653	22.902	67.061	1.00 20.73	AAAA
MOTA	1282	CA LEU					1.00 18.45	AAAA
	1283	CB LEU	163	31.115	23.376	68.421		
ATOM				29.846	24.236	68.463	1.00 19.99	AAAA
ATOM	1284	CG LEU					1.00 15.66	AAAA
ATOM	1285	CD1 LEU	163	28.657	23.408	67.975		
		CD2 LEU		29.609	24.751	69.870	1.00 18.74	AAAA
ATOM	1286					66.106	1.00 18.40	AAAA
ATOM	1287	C LEU	163	31.705	24.071			
				32.607	24.889	66.188	1.00 18.65	AAAA
MOTA	1288			30.752	24.128	65.186	1.00 16.97	AAAA
MOTA	1289	N TYP	164					AAAA
	1290	CA TYP	164	30.656	25.246	64.252	1.00 11.76	
MOTA				30.782	24.754	62.816	1.00 14.07	AAAA
ATOM	1291	CB TYF					1.00 14.51	AAAA
ATOM	1292	CG TYF	164	30.593	25.851	61.797		
				31.573	26.822	61.562	1.00 27.08	AAAA
MOTA	1293	CD1 TYF				60.598	1.00 26.21	AAAA
ATOM	1294	CE1 TYF	164	31.353	27.832			AAAA
				29.415	25.916	61.070	1.00 21.45	
MOTA	1295				26.891	60.137	1.00 21.89	AAAA
MOTA	1296	CE2 TYF	₹ 164	29.193			1.00 16 35	AAAA
	1297	CZ TYF	164	30.148	27.839	59.896	1.00 16.35	
ATOM				29.857	28.764	58.913	1.00 27.44	AAAA
ATOM	1298	OH TYP					1.00 15.67	AAAA
ATOM	1299	C TYP	₹ 164	29.279	25.873	64.463		
				28.760	25.177	64.455	1.00 16.07	AAAA
MOTA	1300	O TYP		20. 00			1.00 14.52	AAAA
MOTA	1301	N ILI	165	2940	27.187		1.00 14.52	
				27.178	27.887	64.893	1.00 18.37	AAAA
MOTA	1302	CA ILI			28.596		1.00 13.31	AAAA
MOTA	1303	CB ILI	165	27.959				AAAA
	1304	CG2 ILI	165	26.654	29.359	66.419	1.00 13.06	
ATOM				28.172	27.573	67.376	1.00 17.28	AAAA
MOTA	1305	CG1 ILI	165				1.00 15.02	AAAA
	1306	CD1 ILI	165	28.493	28.209	68.739	1.00 15.02	
MOTA			-	27.853	28.926	63.779	1.00 20.75	AAAA
ATOM	1307	C IL						AAAA
MOTA	1308	O IL	E 165	28.759				AAAA
	_			26.725	28.901	63.084	1.00 15.37	
MOTA	1309	N AS						AAAA
MOTA	1310	CA AS	P 166	26.503				
				26.276	28.885	60.698	1.00 12.31	AAAA
MOTA	1311	CB AS						AAAA
ATOM	1312	CG AS	P 166	26.279				AAAA
		OD1 AS		25.378	30.508	59.213	1.00 13.41	
MOTA	1313		-					AAAA
ATOM	1314	OD2 AS	P 166	27.187				AAAA
				25.334	30.740	62.174	1.00 15.54	
ATOM	1315							AAAA
MOTA	1316	O AS	p 166	24.160				AAAA
		_		25.647	32.010	62.407	1.00 14.02	
MOTA	1317	_	·	24.598				AAAA
ATOM	1318	CA LE					1 00 14 61	AAAA
				25.051	. 33.962	2 63.767	1.00 14.61	
ATCM				25.345			1.00 17.20	AAAA
ATCM	1320	CG LE	ប 167	45.545			<u> </u>	
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ATOM	1321	CD1	LEH	167	25.635	34.271	66.169	1.00 28.82	AAAA
ATOM	1322	CD2	LEU	167	24.148	32.372	65.513	1.00 18.59	AAAA
MOTA	1323	С	LEU	167	24.122	33.776	61.449	1.00 12.62	AAAA
ATOM	1324	0	LEU	167	23.288	34.678	61.570	1.00 15.00	AAAA
	1325	N	ASP	168	24.667	33.431	60.288	1.00 14.35	AAAA
MOTA		14							
MOTA	1326	CA	ASP	168	24.277	34.056	59.022	1.00 19.50	AAAA
					25.060	33.409	57.880	1.00 25.15	AAAA
MOTA	1327	'CB	ASP	168					
MOTA	1328	CG	ASP	168	24.908	34.145	56.573	1.00 48.45	AAAA
MOTA	1329	OD1	ASP	168	25.477	35.247	56.454	1.00 64.45	AAAA
ATOM	1330	OD2	200	168	24.215	33.633	55.668	1.00 44.71	AAAA
MOTA	1331	С	ASP	168	22.787	33.751	58.834	1.00 16.30	AAAA
	1332	0	ASP	168	22.327	32.696	59.252	1.00 17.72	AAAA
MOTA		U							
ATOM	1333	N	ALA	169	22.059	34.657	58.175	1.00 14.11	AAAA '
	1334	CZ		169	20.618	34.503	57.934	1.00 19.61	AAAA
MOTA		CA	ALA						
MOTA	1335	CB	ÀLÀ	169	20.006	35.856	57.470	1.00 13.56	AAAA
	1226			169	20.277	33.400	56.926	1.00 18.23	AAAA
ATOM	1336	С	ALA						
MOTA	1337	0	ALA	169	19.105	33.159	56.641	1.00 17.20	AAAA
				170	21.301	32.750	56.373	1.00 16.53	AAAA
MOTA	1338	N	HIS					·	
MOTA	1339	CA	HIS	170	21.075	31.652	55.436	1.00 17.51	AAAA
				170	21.616	31.973	54.033	1.00 22.32	AAAA
MOTA	1340	CB	HIS						
ATOM	1341	CG	HIS	170	20.954	33.142	53.37 7	1.00 25.38	AAAA
				170	19.934	33.196	52.487	1.00 19.33	AAAA
MOTA	1342	CD2	HT2						
ATOM	1343	NDl	HIS	170	21.308	34.448	53.638	1.00 18.17	AAAA
					20.535	35.257	52.935	1.00 30.34	AAAA
ATOM	1344	CE1	HIS	170					
MOTA	1345	NE2	HIS	170	19.692	34.523	52.229	1.00 17.51	AAAA
							55.967	1.00 16.72	AAAA
ATOM	1346	С	HIS	170	21.781	30.413			
ATOM	1347	0	HIS	170	22.827	30.511	56.610	1.00 15.92	AAAA
								1.00 15.28	AAAA
MOTA	1348	N	HIS	171	21.209	29.245	55.682		
ATOM	1349	CA	HIS	171	21.751	27.961	56.123	1.00 12.53	AAAA
					20.702	26.878	55.814	1.00 14.09	AAAA
MOTA	1350	CB	HIS	171					
MOTA	1351	CG	HIS	171	21.180	25.468	55.980	1.00 17.27	AAAA
				171	21.249	24.447	55.090	1.00 12.48	AAAA
ATOM	1352		HIS						
ATOM	1353	ND1	HIS	171	21.622	24.956	57.181	1.00 26.73	AAAA
				171 -	21.948	23.685	57.021	1.00 15.98	AAAA
MOTA	1354	CEI	HIS						
ATOM	1355	NE2	HIS	171	21.729	23.352	55.761	1.00 20.03	AAAA
MOTA	1356	С	HIS	171	23.107	27.602	55.498	1.00 15.55	AAAA
ATOM	1357	0	HIS	171	23.318	27.784	54.298	1.00 17.03	AAAA
ATOM	1358	N	CYS	172	24.026	27.105	56.323	1.00 14.33	AAAA
									AAAA
ATOM	1359	CA	CYS	172	25.350	26.675	55.866	1.00 13.65	
MOTA	1360	CB	CYS	172	26.330	26.631	57.054	1.00 12.99	AAAA
								1.00 17.17	AAAA
ATOM	1361	SG	CYS	172	25.680	25.826	58.551		
MOTA	1362	С	CYS	172	25.212	25.274	55.257	1.00 16.52	AAAA
				172	25.750	24.297	55.783	1.00 14.95	AAAA
MOTA	1363	0	CYS						
ATOM	1364	N	ASP	173	24.516	25.173	54.130	1.00 15.42	AAAA
				173	24.302	23.865	53.531	1.00 14.75	'AAAA'
ATOM	1365	CA	ASP	1/3					
MOTA	1366	CB	ASP	173	23.339	23.956	52.332	1.00 17.73	AAAA
					23.765	24.966	51 283	1.00 22.84	AAAA
ATOM	1367	CG	ASP	173			54.205		
ATOM	1368	OD1	ASP	173	23.106	24.998	50.216	1.00 18.68	AAAA
				173	24.730	25.728	51.504	1.00 15.34	AAAA
ATOM	1369		ASP						
ATOM	1370	С	ASP	173	25.590	23.145	53.149	1.00 16.39	AAAA
				173	25.684	21.922	53.279 [.]	1.00 16.48	AAAA
MOTA	1371	0	ASP						
MOTA	1372	N	GLY	174	26.583	23.912	52.705	1.00 15.58	AAAA
	1373	CA	GLY	174	27 869	23.346	52.360	1.00 13.97	AAAA
ATOM									
MOTA	1374	C	GLY	174	28.508	22.723	53.595	1.00 18.44	AAAA
	1375	ο .	GLY	174	28.970	21.586	53.540	1.00 15.48	AAAA
MOTA	_	0							AAAA
ATOM	1376	N	VAL	175	28.554	23.456	54.706	1.00 16.84	
ATOM	1377		.VAL	175	29.136	22.923	55.946	1.00 16.54	AAAA
									AAAA
MOTA	1378	CB	VAL	175	29.201	24.031	57.037	1.00 15.88	
ATOM	1379	CG1	VAL	175	29.927	23.507	58.307	1.00 15.35	AAAA
								1.00 15.62	AAAA
ATOM	1380	CG2	VAL	175	29.923	25.258	56.476		
ATOM	1381	С	VAL	175	28.318	21.720	56.467	1.00 19.21	AAAA
						20.735	56.961	1.00 17.75	AAAA
ATOM	1382	2	VAL	175	28.876				
ATOM	1383	N	GLN	176	26.996	21.798	56.367	1.00 17.74	AAAA
					26.164	20.685	56.832	1.00 15.66	AAAA
ATOM	1384	CA	GLN	176					
ATOM	1385	CB	GLN	176	24.678	20.973	56.595	1.00 16.64	AAAA
		CG	GLN	176	23.789	19.788	56.952	1.00 17.00	AAAA
MOTA	1386	CG	السدي	1,0	23.703	10.700		1.00 17.00	
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				176	22.325	20.106	56.884	1.00 21.52	AAAA
MOTA	1387		LN	176	21.850	21.016		1.00 21.72	AAAA
ATOM	1388		LN	176	21.581	19.348		1.00 20.30	AAAA
MOTA	1389		LN	176	26.527	19.387		1.00 16.33	AAAA
MOTA	1390		LN	176	26.751	18.354	56.748	1.00 17.46	AAAA
MOTA	1391	-	LN	176	26.581	19.443	54.799	1.00 22.24	AAAA .
MOTA	1392		LU	177		18.251	54.021	1.00 19.67	AAAA
MOTA	1393		LU	177	26.909	18.587	52.533	1.00 15.55	AAAA
MOTA	1394		LU	177	26.857		51.623	1.00 20.24	AAAA
MOTA	1395		LU	177	27.131	17.388	50.159	1.00 27.00	AAAA
ATOM	1396		LU	177	26.960	17.740 17.935	49.450	1.00 30.23	AAAA
ATOM	1397	OE1 G		177	27.974		49.725	1.00 26.89	AAAA
MOTA	1398		LU	177	25.796	17.853	54.376	1.00 20.42	AAAA
MOTA	1399		LU	177	28.284	17.713	54.527	1.00 17.05	AAAA
ATOM	1400		LU	177	28.486	16.503	54.527	1.00 19.67	AAAA
MOTA	1401	N P	\LA	178	29.233	18.626	54.839	1.00 18.18	AAAA
ATOM	1402		ALA	178	30.611	18.259	54.039	1.00 12.76	AAAA
MOTA	1403	-	ALA.	178	31.464	19.519	56.106	1.00 17.56	AAAA
MOTA	1404	C A	ALA	178	30.806	17.418	56.167	1.00 17.72	AAAA
MOTA	1405		ALA	178	31.690	16.555		1.00 18.82	AAAA
MOTA	1406	N I	PHE	179	29.981	17.656	57.116 58.379	1.00 20.26	AAAA
ATOM	1407		PHE	179	30.124	16.945	59.439	1.00 23.23	AAAA
ATOM	1408		PHE	179	30.554	17.948		1.00 16.28	AAAA
ATOM	1409		PHE	179	31.779	18.693	59.048 58.610	1.00 13.77	AAAA
ATOM	1410	CD1 1		179	31.705	20.017	58.995	1.00 15.57	AAAA
MOTA	1411	CD2	PHE	179	33.002	18.031	58.114	1.00 20.03	AAAA
MOTA	1412		PHE	179	32.845	20.673	58.500	1.00 20.30	AAAA
MOTA	1413	CE2	PHE	179	34.145	18.677	58.058	1.00 19.51	AAAA
MOTA	1414		PHE	179	34.060	20.002	58.833	1.00 18.52	AAAA
ATOM	1415	-	PHE	179	28.882	16.219	60.000	1.00 20.21	AAAA
MOTA	1416		PHE	179	28.773	15.828	57.895	1.00 18.33	AAAA
ATOM	1417		TYR	180	27.969	16.016	58.176	1.00 19.93	AAAA
MOTA	1418		TYR	180	26.698	15.379		1.00 20.97	AAAA
MOTA	1419		TYR	180	25.874	15.310	57.159	1.00 19.80	AAAA
MOTA	1420		TYR	180	24.402	15.341	56.686	1.00 23.87	AAAA
MOTA	1421		TYR	180	23.565	14.337	56.898	1.00 21.32	AAAA
ATOM	1422		TYR	180	22.203	14.391 16.416	57.865	1.00 19.02	AAAA
MOTA	1423		TYR	180	23.831 22.470	16.482	58.084	1.00 26.84	AAAA
ATOM	1424		TYR	180	21.659	15.462	57.594	1.00 30.54	AAAA
MOTA	1425		TYR	180		15.514	57.794	1.00 22.81	AAAA
ATOM	1426		TYR	180	20.310 26.855	13.970	58.737	1.00 22.61	AAAA
MOTA	1427		TYR	180	26.064	13.576	59.579	1.00 23.44	AAAA
MOTA	1428		TYR	180	27.893	13.298	58.253	1.00 22.27	AAAA
MOTA	1429		ASP	181	28.245	11.920	58.590	1.00 33.84	AAAA
MOTA	1430		ASP	181	28.916	11.318		1.00 41.74	AAAA
MOTA	1431	CB	ASP	181	30.035			1.00 57.71	AAAA
MOTA	1432	CG	ASP	181	30.999	10.780		1.00 61.40	AAAA
MOTA	1433	OD1		181	29.965	_		1.00 65.77	AAAA
ATOM	1434	OD2		181	29.107			1.00 30.21	AAAA
MOTA	1435	C	ASP	181	29.307			1.00 27.84	AAAA
MOTA	1436	С	ASP	181	29.615			1.00 27.53	AAAA
MOTA	1437	N	THR	182	30.472			1.00 21.19	AAAA
MOTA	1438	CA	THR	182	31.918			1.00 26.55	AAAA
ATOM	1439	_	THR	182	32.729			1.00 25.62	AAAA
ATOM	1440			182	31.922			1.00 21.67	AAAA
MOTA	1441		THR	182	30.010			1.00 25.02	AAAA
MOTA	1442		THR	182	29.306				AAAA
MOTA	1443		THR	182	30.434			1.00 19.66	AAAA
MOTA	1444		ASP	183	30.086				AAAA
ATCM	1445		ASP	183	29.735				AAAA
ATOM	1446		ASP	183		-			AAAA
ATCM	1447		ASP	183	30.920 31.66				AAAA
MOTA	1448	_	ASP	183				 	AAAA
MCTA	1449		ASP	183	31.09		-		AAAA
ATOM			ASP	183	31.25° 31.23				аааа
ATOM	1451		ASP	183	31.43	5 13.90			AAAA ·
3 COM	1.452	N	GLN	184	32.28		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

ATOM	1453	CA	GLN	184	33.437	14.672	65.590	1.00 17.65	AAAA
					34.701	14.243	64.866	1.00 21.36	AAAA
ATOM	1454		GLN	184				1.00 27.38	AAAA
ATOM	1455	CG	GLN	184	35.068	12.790	65.102		
ATOM	1456	CD	GLN	184	36.485	12.476	64.691	1.00 31.96	AAAA
					36.899	12.760	63.573	1.00 29.90	AAAA
MOTA	1457	OE1		184				1.00 31.84	AAAA
ATOM	1458	NE2	GLN	184	37.239	11 ⁻ .878	65.599		
	1459	С	GLN	184	33.207	16.165	65.382	1.00 18.54	AAAA
MOTA	_		•			17.009	65.972	1.00 18.11	AAAA
MOTA	1460		GLN	184	33.881				
MOTA	1461	N	VAL	185	32.258	16.481	64.519	1.00 19.18	AAAA
			VAL	185	31.934	17.872	64.267	1.00 21.57	AAAA
ATOM	1462					18.264	62.807	1.00 22.64	AAAA
MOTA	1463	CB	VAL	185	. 32.261				
MOTA	1464	CGl	VAL	185	31.994	19.768	62.591	1.00 16.26	AAAA
	1465	CG2	177.1	185	33.722	17.924	62.500	1.00 16.77	AAAA
MOTA						18.035	64.523	1.00 16.91	AAAA
MOTA	1466	C	VAL	185	30.449				
MOTA	1467	0	VAL	185	29.658	17.156	64.179	1.00 20.79	AAAA
			PHE	186	30.081	19.146	65.153	1.00 18.73	AAAA
ATOM	1468	N			•	19.446	65.435	1.00 16.22	AAAA
ATOM	1469	CA	PHE	186	28.687				
MOTA	1470	CB	PHE	186	28.432	19.559	66.952	1.00 16.83	AAAA
		CG	PHE	186	26.976	19.682	67.299	1.00 17.96	AAAA,
ATOM	1471						67.968	1.00 23.24	AAAA
MOTA	1472	CD1	PHE	186	26.319	18.656			
MOTA	1473	CD2	PHE	186	26.240	20.797	66.904	1.00 15.41	AAAA
	1474	CE1		186	24.953	18.738	68.235	1.00 18.99	AAAA
MOTA						20.887	67.168	1.00 24.05	AAAA
ATOM	1475	CE2	PHE	186	24.879				
ATOM	1476	CZ	PHE	186	24.234	19.846	67.838	1.00 22.93	AAAA
	1477		PHE	186	28.437	20.789	64.778	1.00 17.16	AAAA
MOTA					29.192	21.725	64.993	1.00 19.37	AAAA
ATOM	1478	0	PHE	186					AAAA
MOTA	1479	N	VAL	187	27.391	20.874	63.961	1.00 19.67	
	1480	CA	VAL	187	27.075	22.116	63.277	1.00 17.74	AAAA
MOTA					27.010	21.914	61.720	1.00 18.65	AAAA
MOTA	1481	CB	VAL	187				1.00 17.31	AAAA
MOTA	1482	CG1	VAL	187	26.578	23.211	61.024		
ATOM	1483	CG2	VAL	187	28.359	21.453	61.194	1.00 16.65	AAAA
				187	25.732	22.637	63.746	1.00 18.46	AAAA
MOTA	1484	С	VAL					1.00 20.64	AAAA
ATOM	1485	0	VAL	187	24.752	21.903	63.764		
ATOM	1486	N	LEU	188	25.708	23.899	64.150	1.00 14.42	AAAA
				188	24.482	24.563	64.567	1.00 16.68	AAAA
ATOM	1487	CA	LEU				66.009	1.00 13.98	AAAA
MOTA	1488	CB	LEU	188	24.568	25.070			
ATOM	1489	CG	LEU	188	23.522	26.119	66.450	1.00 13.66	AAAA
			LEU	188	22.103	25.556	66.401	1.00 15.55	AAAA
MOTA	1490					26.585	67.861	1.00 16.40	AAAA
MOTA	1491	CD2	LEU	188	23.844				AAAA
ATOM	1492	С	LEU	188	24.272	25.756	63.667	1.00 20.01	
	1493	ō	LEU	188	25.164	26.595	63.506	1.00 18.86	AAAA
ATOM					23.106	25.845	63.057	1.00 14.46	AAAA
ATOM	1494	N	SER	189				1.00 14.56	AAAA
ATOM	1495	CA	SER	189	22.841	27.011	62.230		
	1496	CB	SER	189	22.896	26.668	60.737	1.00 15.55	AAAA
MOTA					22.619	27.851	60.008	1.00 14.09	AAAA
MOTA	1497	OG	SER	189				1.00 15.24	AAAA
ATOM	1498	С	SER	189	21.487	27.606	62.508		
ATOM	1499	0	SER	189	20.509	26.885	62.578	1.00 21.46	AAAA
	1500		LEU	190	21.423	28.921	62.690	1.00 14.92	AAAA
ATOM		N						1.00 15.54	AAAA
ATOM	1501	CA	LEU	190	20.128	29.572	_	1.00 13.54	AAAA
ATOM	1502	CB	LEU	190	20.084	30.663	63.906	1.00 21.02	
	1503	ĊĠ	LEU	190	20.594	30.532	65.339	1.00 30.17	AAAA
MOTA								1.00 19.75	AAAA
MOTA	1504	CD1	LEU	190	19.736				AAAA
ATOM	1505	CD2	LEU	190	20.547			1.00 19.08	
	1506	Ċ	LEU	190	20.035	30.250	61.456	1.00 14.31	AAAA
ATOM					21.031		60.951	1.00 15.43	AAAA
MOTA	1507	0	LEU	190					AAAA
MOTA	1508	N	HIS	191	18.855			1.00 16.88	
	1509	CA	HIS	191	18.732	30.884	59.535	1.00 14.34	AAAA
ATOM					19.506			1.00 17.34	AAAA
ATOM	1510	СВ	HIS	191				1.00 14.27	AAAA
ATOM	1511	CG	HIS	191	19.229				
ATOM	1512		HIS	191	19.941	27.578	59.319	1.00 9.60	AAAA
				191	18.073			1.00 21.22	AAAA
ATOM	1513		HIS						AAAA
ATCM	1514		HIS	191	18.088				
ATOM	1515		HIS	191	19.212	26.415	59.232		AAAA
					17.277		59.110	1.00 16.19	AAAA
atom	1516	С	HIS						AAAA
ATOM	1517	0	HIS		16.381				AAAA
ATCM	1518	N	GLN	192	17.044	31.796	58.045	1.00 14.78	www
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ATOM 1510 CE GLN 192 15.669 32.871 56.283 1.00 17.07 AAAA ATOM 1521 CG GLN 192 16.174 34.270 56.698 1.00 18.15 ATOM 1521 CG GLN 192 16.408 34.965 55.177 1.00 14.74 AAAA ATOM 1523 OEI GLN 192 15.408 34.965 55.177 1.00 15.06 AAAA ATOM 1523 OEI GLN 192 15.408 34.965 55.177 1.00 15.06 AAAA ATOM 1525 C GLN 192 15.203 03.586 57.7072 1.00 15.06 AAAA ATOM 1525 C GLN 192 15.202 15.565 54.587 1.00 15.06 AAAA ATOM 1526 O GLN 192 16.071 29.843 56.514 1.00 19.23 AAAA ATOM 1527 N SER 193 12.097 28.677 57.204 1.00 15.63 AAAA ATOM 1528 CA SER 193 12.097 28.677 57.284 1.00 17.28 AAAA ATOM 1520 CS SER 193 12.097 28.677 57.284 1.00 17.28 AAAA ATOM 1521 C SER 193 13.601 28.907 56.877 1.00 13.84 AAAA ATOM 1520 C SER 193 13.602 28.704 55.550 1.00 17.28 AAAA ATOM 1531 C SER 193 13.602 28.704 55.550 1.00 17.28 AAAA ATOM 1532 O SER 193 13.602 27.439 56.750 1.00 17.28 AAAA ATOM 1531 C SER 193 13.400 29.615 55.50 1.00 17.28 AAAA ATOM 1531 C SER 193 13.400 29.704 55.550 1.00 17.28 AAAA ATOM 1532 O SER 193 13.400 29.704 55.500 1.00 17.28 AAAA ATOM 1535 CA PRO 194 14.335 52.500 50.00 11.80 AAAA ATOM 1535 C PRO 194 14.335 52.500 50.00 10.8.44 AAAA ATOM 1535 C PRO 194 14.335 52.500 50.00 10.8.34 ATOM 1530 C SER 193 13.400 29.500 50.500 50.00 19.22 AAAA ATOM 1535 C PRO 194 12.880 27.135 55.780 1.00 19.22 AAAA ATOM 1535 C PRO 194 12.880 27.135 55.780 1.00 19.22 AAAA ATOM 1534 CD PRO 194 12.850 27.137 53.573 1.00 18.33 AAAA ATOM 1534 C PRO 194 12.880 27.137 53.573 1.00 18.33 AAAA ATOM 1535 C PRO 194 12.880 27.137 53.573 1.00 18.33 AAAA ATOM 1534 C PRO 194 12.880 27.335 54.899 1.00 18.43 ATOM 1540 C BUU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 C BUU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 C BUU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 C BUU 195 10.483 27.164 53.099 1.00 30.15 AAAA ATOM 1540 C BUU 195 10.483 27.164 53.099 1.00 18.16 ATOM 1551 C B TYR 196 11.288 27.335 53.932 1.00 19.43 AAAA ATOM 1554 C B TYR 196 11.288 27.335 53.932 1.00 19.43 AAAA ATOM 1555 C C TYR 196 12.289 33.284 57.509 1.00 20.266 AAAA ATOM 1550							060	rn 516	1.00 16.33	AAAA
STOOM 1520 CE GLN 192 15.668 32.871 36.288 1.00 18.15 AAAA AROM 1521 CG GLN 192 16.408 34.955 55.177 1.00 11.74 AAAA AROM 1522 CD GLN 192 16.408 34.955 55.177 1.00 12.74 AAAA AROM 1523 OEI GLN 192 17.630 34.839 54.665 1.00 13.44 AAAA AROM 1525 C GLN 192 17.630 34.839 54.665 1.00 13.44 AAAA AROM 1525 C GLN 192 15.262 30.584 57.072 1.00 15.05 AAAA AROM 1526 O GLN 192 16.071 29.843 57.514 1.00 19.23 AAAA AROM 1527 N SER 193 11.007 30.237 55.517 1.00 13.84 AAAA AROM 1527 N SER 193 11.607 30.237 55.517 1.00 13.84 AAAA AROM 1520 CS SER 193 11.607 30.237 55.517 1.00 13.84 AAAA AROM 1530 CS SER 193 11.607 30.237 55.517 1.00 13.84 AAAA AROM 1531 CS SER 193 11.607 30.237 55.510 1.00 17.58 AAAA AROM 1530 CS SER 193 11.607 30.247 57.505 54.928 1.00 18.44 AAAA AROM 1532 CS SER 193 11.607 30.575 55.500 1.00 17.58 AAAA AROM 1532 CS SER 193 13.607 29.607 57.505 54.928 1.00 14.59 AAAA AROM 1534 CD PRO 194 14.352 CS.325 55.787 1.00 13.84 AAAA AROM 1534 CD PRO 194 14.352 CS.325 55.787 1.00 13.80 AAAA AROM 1534 CD PRO 194 14.352 CS.325 55.787 1.00 13.80 AAAA AROM 1536 CB PRO 194 14.352 CS.325 55.787 1.00 13.80 AAAA AROM 1537 CG PRO 194 14.352 CS.325 55.787 1.00 13.33 AAAA AROM 1536 CB PRO 194 12.880 27.710 52.666 1.00 16.40 AAAA AROM 1538 CR PRO 194 12.880 27.710 52.666 1.00 16.40 AAAA AROM 1538 CR PRO 194 12.880 27.710 52.666 1.00 16.40 AAAA AROM 1538 CR PRO 194 12.880 27.710 52.666 1.00 16.40 AAAA AROM 1540 CS GLU 195 7.635 30.259 54.612 1.00 20.57 AAAA AROM 1540 CS GLU 195 7.635 30.259 54.612 1.00 19.43 AAAAA AROM 1540 CS GLU 195 7.635 30.259 54.612 1.00 10.57	T TOM	1519	ca (GLN	192	15.683	• • • • •		1.00 10.33	
1521 CG GIN 192 16.174 34.270 36.498 1.00 16.174 AAAA AAAAA AAAAAA					192	15.669	32.871			
1522 CD GLN 192 16.408 34.965 55.17 1.00 10.76 AAAA AAAAA			_	_		16.174	34.270			
ATOM 1522 OEI GIN 192 15.490 35.566 54.587 1.00 20.46 AAAA ATOM 1524 NE2 GIN 192 17.630 34.839 54.665 1.00 13.44 AAAA ATOM 1525 C GIN 192 15.262 30.584 57.072 1.00 15.06 AAAAA ATOM 1526 O GIN 192 16.071 29.843 55.614 1.00 19.23 AAAA ATOM 1527 N. SERR 193 14.007 30.223 57.304 1.00 15.63 AAAA ATOM 1528 CA SERR 193 14.007 30.223 57.304 1.00 15.63 AAAA ATOM 1528 CA SERR 193 12.697 28.677 57.284 1.00 17.28 AAAA ATOM 1530 O SER 193 11.639 27.439 56.750 1.00 17.58 AAAA ATOM 1531 O SERR 193 13.667 28.704 55.550 1.00 17.58 AAAA ATOM 1531 O SERR 193 13.667 28.704 55.550 1.00 11.80 AAAAA ATOM 1531 O SERR 193 13.607 28.705 54.928 1.00 14.59 AAAA ATOM 1531 O SERR 193 13.607 28.705 54.928 1.00 14.59 AAAA ATOM 1535 C SER 193 14.003 27.505 54.928 1.00 14.59 AAAA ATOM 1535 C SER 193 14.035 27.505 54.928 1.00 14.59 AAAA ATOM 1535 C SER 193 14.258 27.143 53.513 1.00 15.30 AAAA ATOM 1535 C SER 194 14.235 25.557 55.007 1.00 22.34 AAAA ATOM 1535 C SER 194 14.2880 27.143 53.513 1.00 15.30 AAAA ATOM 1535 C SER 194 12.880 27.104 52.866 1.00 18.33 AAAA ATOM 1538 C SER 194 12.880 27.104 52.866 1.00 18.33 AAAA ATOM 1539 O PRO 194 12.880 27.104 52.866 1.00 18.33 AAAA ATOM 1539 O PRO 194 12.880 27.104 52.866 1.00 19.33 AAAA ATOM 1540 N GLU 195 11.282 27.151 53.640 1.00 19.33 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1544 CD GLU 195 9.386 27.703 54.179 1.00 24.59 AAAA ATOM 1545 CC GLU 195 9.386 27.035 54.179 1.00 24.59 AAAA ATOM 1545 CC GLU 195 9.386 27.035 54.179 1.00 34.45 AAAA ATOM 1545 CC GLU 195 9.386 27.335 54.879 1.00 34.98 AAAA ATOM 1545 CC GLU 195 9.386 27.335 54.879 1.00 34.98 AAAA ATOM 1545 CC GLU 195 9.386 27.335 54.879 1.00 34.93 AAAA ATOM 1545 CC GLU 195 9.386 27.335 54.879 1.00 34.95 AAAA ATOM 1545 CC GLU 195 9.386 27.335 54.879 1.00 34.95 AAAA ATOM 1555 CC TYR 196 11.024 30.753 51.992 1.00 34.95 AAAA ATOM 1555 CC TYR 196 11.024 30.753 51.992 1.00 34.95 AAAA ATOM 1555 CC TYR 196 11.752 AAAA ATOM 1555 CC T							34.965			
ATOM 1523 OF 15 GLN 192 17:310 34.839 54.665 1.00 13.44 AAAA ATOM 1525 C GLN 192 15:262 30.584 57.072 1.00 15:06 AAAA ATOM 1526 O GLN 192 16:071 29.843 56.514 1.00 19.23 AAAA ATOM 1526 C GLN 192 16:071 29.843 56.514 1.00 19.23 AAAA ATOM 1528 CA SER 193 11.961 28.907 56.877 1.00 13.84 AAAA ATOM 1520 CO SER 193 11.961 28.907 56.877 1.00 13.84 AAAA ATOM 1530 OF SER 193 11.967 28.677 57.284 1.00 17.28 AAAA ATOM 1530 CO SER 193 11.667 28.907 56.877 1.00 13.84 AAAA ATOM 1531 C SER 193 11.667 28.907 56.877 1.00 13.84 AAAA ATOM 1531 C SER 193 11.667 28.704 55.555 1.00 17.28 AAAA ATOM 1531 C SER 193 11.667 28.704 55.555 1.00 17.28 AAAA ATOM 1531 C SER 193 11.667 28.704 55.550 1.00 17.58 AAAA ATOM 1531 C SER 193 11.667 28.704 55.550 1.00 11.80 AAAA ATOM 1534 C D PRO 194 14.203 27.505 54.282 1.00 19.22 AAAAA ATOM 1535 C A PRO 194 14.268 27.143 53.513 1.00 18.33 AAAA ATOM 1536 C B PRO 194 14.288 27.153 55.573 1.00 18.33 AAAA ATOM 1537 C C PRO 194 12.275 27.700 55.1640 1.00 19.43 AAAA ATOM 1537 C B PRO 194 12.275 27.00 55.660 1.00 16.40 AAAAA ATOM 1530 C B PRO 194 12.275 27.00 55.600 1.00 19.43 AAAA ATOM 1540 N GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 N GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 N GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.165 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 10.483 27.	ATOM							54.587	1.00 20.46	ሕ A AA
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ATOM 1525 C GLN 192 15.66.2 30.369 36.514 1.00 19.23 AAAA ATOM 1527 N SER 193 14.007 30.223 57.304 1.00 15.63 ATOM 1528 CA SER 193 13.661 28.907 56.877 1.00 13.84 AAAA ATOM 1520 CS SER 193 12.097 28.677 57.284 1.00 17.28 ATOM 1520 CS SER 193 12.097 28.677 57.284 1.00 17.28 ATOM 1531 C SER 193 13.667 28.749 55.550 1.00 11.80 AAAA ATOM 1531 C SER 193 13.607 28.749 55.550 1.00 11.80 AAAA ATOM 1532 C SER 193 13.607 28.704 55.550 1.00 11.80 AAAA ATOM 1531 C SER 193 13.607 28.704 55.550 1.00 11.80 AAAA ATOM 1533 N PRO 194 14.335 25.558 75.282 1.00 14.59 AAAA ATOM 1535 C PRO 194 14.335 25.558 75.737 53.737 1.00 18.44 ATOM 1535 C PRO 194 14.280 27.104 55.550 007 1.00 22.34 ATOM 1536 CB PRO 194 15.359 25.587 55.007 1.00 22.34 ATOM 1536 CB PRO 194 12.880 27.104 52.866 1.00 15.30 ATOM 1536 CB PRO 194 12.880 27.104 52.866 1.00 12.34 ATOM 1536 CB PRO 194 12.880 27.104 52.866 1.00 12.34 ATOM 1536 CB PRO 194 12.880 27.104 52.866 1.00 12.34 ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 C GLU 195 9.386 27.037 54.173 1.00 13.43 ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1541 CA GLU 195 7.880 29.119 54.171 1.00 34.498 ATOM 1545 CDI GLU 195 7.605 30.259 54.612 1.00 48.98 AAAA ATOM 1546 CDI GLU 195 7.880 29.119 54.171 1.00 30.15 AAAA ATOM 1548 N TYR 196 11.16 29.501 52.669 1.00 18.16 AAAA ATOM 1545 CDI GLU 195 7.241 28.627 53.120 1.00 30.15 AAAA ATOM 1546 CDI GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1546 CDI GLU 195 7.635 30.259 54.612 1.00 30.15 AAAA ATOM 1547 C GLU 195 7.880 29.119 54.174 1.00 30.15 AAAA ATOM 1548 N TYR 196 11.716 29.501 52.669 1.00 18.16 AAAA ATOM 1540 C GLU 195 7.880 29.119 54.10 40.0		1524	NE2	GLN	192					
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ATOM 1533 N PRO 194 14.103 27.505 54.928 1.00 18.22 AAAA ATOM 1536 CD PRO 194 14.268 27.143 53.513 1.00 18.32 AAAA ATOM 1535 CA PRO 194 14.268 27.143 53.513 1.00 18.33 AAAA ATOM 1537 CG PRO 194 14.268 27.137 53.573 1.00 18.33 AAAA ATOM 1537 CG PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1537 CG PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 C PRO 194 12.880 27.105 53.681 1.00 20.57 AAAAA ATOM 1540 N GLU 195 10.883 27.161 53.681 1.00 20.57 AAAAA ATOM 1541 CA GLU 195 10.883 27.361 53.681 1.00 20.57 AAAAA ATOM 1540 CG GLU 195 7.880 27.151 53.681 1.00 20.57 AAAAA ATOM 1544 CD GLU 195 7.880 27.151 53.681 1.00 20.57 AAAAA ATOM 1546 CD GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1546 CD GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1546 CD GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1548 N GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1548 N GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1548 N GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1550 CA TYR 196 11.102 29.501 52.669 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.283 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.598 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 10.598 31.801 52.690 1.00 20.19 AAAA ATOM 1550 CA TYR 196 12.3			0	SER	193					
ATOM 1534 CD PRO 194 14.335 26.325 55.682 1.00 15.22 AAAA ATOM 1535 CA PRO 194 14.268 27.143 53.513 1.00 15.33 AAAA ATOM 1536 CB PRO 194 14.892 25.737 53.573 1.00 18.33 AAAA ATOM 1537 CG PRO 194 15.359 25.587 55.007 1.00 22.34 AAAA ATOM 1538 C PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1538 C PRO 194 12.875 27.003 51.640 1.00 19.43 AAAA ATOM 1540 N GLU 195 11.828 27.151 53.681 1.00 20.57 AAAA ATOM 1540 N GLU 195 11.828 27.151 53.681 1.00 20.57 AAAA ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1542 CB GLU 195 9.366 27.037 54.173 1.00 31.91 AAAA ATOM 1543 CG GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1546 CD GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1546 CD GLU 195 7.625 30.259 54.612 1.00 43.98 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1548 O GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1549 N TYR 196 11.0124 30.753 51.922 1.00 18.16 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1553 CD TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1555 CC TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1555 CD TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1555 CD TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.669 1.00 18.12 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.669 1.00 18.12 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.669 1.00 18.12 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.669 1.00 18.12 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.669 1.00 18.13 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.13 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.13 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.13 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.10 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.10 AAAA ATOM 1550 CD TYR 196 10.208 31.801 52.669 1.00 18.10 AAAA ATOM 1550 CD TYR 196 10.208 32.801 50.809 52.001 1.00 20.01 AAAA ATOM 1550 CD TYR 19				PRO	194	14.103				
ATOM 1535 CA PRO 194 14.268 27.143 33.513 1.00 18.33 AAAA ATOM 1536 CB PRO 194 14.892 25.737 53.573 1.00 18.33 AAAA ATOM 1537 CG PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1538 C PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.757 27.003 51.640 1.00 19.43 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.699 1.00 20.57 AAAA ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1542 CB GLU 195 8.987 28.325 54.879 1.00 45.60 AAAA ATOM 1544 CD GLU 195 7.880 27.037 54.173 1.00 31.91 AAAA ATOM 1546 CD GLU 195 7.880 29.119 54.174 1.00 43.45 AAAA ATOM 1546 OE2 GLU 195 7.880 29.119 54.174 1.00 43.45 AAAA ATOM 1548 O GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1548 O GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1548 O GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1549 N TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1551 CB TYR 196 10.088 32.353 53.932 1.00 19.77 AAAA ATOM 1552 CG TYR 196 10.288 31.801 52.690 1.00 20.01 AAAA ATOM 1555 CDZ TYR 196 10.288 31.801 52.690 1.00 20.01 AAAA ATOM 1556 CEZ TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.339 1.00 19.77 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.339 1.00 18.24 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.339 1.00 18.24 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.339 1.00 18.03 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.235 1.00 20.03 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.235 1.00 20.03 AAAA ATOM 1556 CZ TYR 196 12.233 2.283 56.235 1.00 20.09 AAAA ATOM 1556 CD TYR 196 12.233 2.283 56.235 1.00 19.75 AAAA ATOM 1557 CD TYR 196 12.233 2.283 56.235 1.00 19.07 5.30 ATOM 1556 CD TYR 196 12.233 2.283 56.235 1.00 19.07 5.30 ATOM 1560 C TYR 196 12.233 2.283 56.257 1.00 19.03 AAAA ATOM 1557 CD TYR 196 12.233 2.283 56.257 1.00 19.03 AAAA ATOM 1557 CD TYR 196 12.336 2.347 50.718 1.00 16.20 ATOM 1560 C TYR 196 12.336 2.347 50.718 1.00 23.08 AATOM 1560 C TYR 196 12.233 2.283 56.235 1.00 20.09 AAAA ATOM 1560 C TYR 196 12.336 2.347 50.718 1.00 23.08 A						14.335	26.325			
ATOM 1536 CB PRO 194 14.892 25.737 33.573 1.00 18.33 AAAA ATOM 1537 CG PRO 194 15.359 25.867 55.007 1.00 22.34 AAAA ATOM 1538 C PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.757 27.003 51.640 1.00 19.43 AAAA ATOM 1540 N GLU 195 11.828 27.151 53.681 1.00 20.57 AAAA ATOM 1541 CA GLU 195 10.483 27.461 53.099 1.00 30.15 AAAA ATOM 1541 CA GLU 195 9.865 27.037 54.173 1.00 31.91 AAAA ATOM 1542 CB GLU 195 9.865 27.037 54.173 1.00 31.91 AAAA ATOM 1542 CB GLU 195 7.863 30.259 54.612 1.00 43.98 AAAA ATOM 1543 CC GLU 195 7.863 30.259 54.612 1.00 43.98 AAAA ATOM 1545 OE1 GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1546 OE2 GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1547 C GLU 195 7.241 28.627 53.210 1.00 34.45 AAAA ATOM 1547 C GLU 195 9.552 28.557 51.395 1.00 24.59 AAAA ATOM 1548 O GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1549 N TUR 196 11.162 29.501 52.669 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1551 CB TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1555 CC TYR 196 10.288 31.891 52.690 1.00 20.01 AAAA ATOM 1555 CC TYR 196 10.208 31.891 55.1951 1.00 24.59 AAAA ATOM 1555 CC TYR 196 11.024 30.753 51.922 1.00 18.16 AAAA ATOM 1555 CC TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1555 CC TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CE2 TYR 196 12.233 32.283 56.339 1.00 21.09 21.09 AAAA ATOM 1556 CE2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 12.2407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CE2 TYR 196 12.2407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CE2 TYR 196 12.2407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CE2 TYR 196 12.2407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CE2 TYR 196 12.259 9.999 49.321 1.00 17.52 AAAA ATOM 1566 C AAAA 197 15.75 C PRO 198 12.25 C PRO 199 19.809 29.600 27.318 1.00 20.26 AAAA ATOM 1566 C AAAA 197 15.75 C PRO 198 12.25 C PRO 199 19.809 27.318 49.700 19.00 3.90 AAAA ATOM 1566 C AAAA 197 15.75 C PRO 199 19.800 27.318 49.704 1.00 13.51 AAAA ATOM 1576 C PRO 198 18.800 29.26 AAAA ATOM 1577 C						14.268	27.143	53.513		
ATOM 1537 CG PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.757 27.003 51.640 1.00 19.43 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1542 CB GLU 195 8.987 28.325 54.879 1.00 45.60 AAAA ATOM 1542 CB GLU 195 8.987 28.325 54.879 1.00 45.60 AAAA ATOM 1544 CD GLU 195 7.680 29.119 54.174 1.00 34.45 AAAA ATOM 1545 OEI GLU 195 7.645 30.259 54.612 1.00 43.98 AAAA ATOM 1546 OEI GLU 195 7.645 30.259 54.612 1.00 43.98 AAAA ATOM 1546 OEI GLU 195 7.241 28.627 53.210 1.00 38.39 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1548 O GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1548 O GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1550 CA TYR 196 11.116 29.501 52.669 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.0124 30.753 51.922 1.00 15.81 AAAA ATOM 1550 CB TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1553 CDI TYR 196 11.024 30.753 51.922 1.00 19.77 AAAA ATOM 1555 CDI TYR 196 10.688 32.353 53.932 1.00 19.77 AAAA ATOM 1555 CDI TYR 196 11.203 31.801 55.185 1.00 18.24 AAAA ATOM 1555 CDI TYR 196 11.223 32.283 56.339 1.00 18.70 19.77 AAAA ATOM 1555 CDI TYR 196 11.223 32.283 56.339 1.00 18.50 AAAA ATOM 1556 C TYR 196 12.259 33.784 57.367 1.00 16.50 AAAA ATOM 1556 CDI TYR 196 12.253 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.253 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.253 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.253 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.253 33.785 51.00 20.254 AAAA ATOM 1557 C TYR 196 12.363 32.347 50.718 1.00 20.256 AAAA ATOM 1566 N PHE 198 17.861 30.049 9.782 1.00 17.52 AAAA ATOM 1566 C TYR 196 12.350 30.93 31.90 20.074 AAAA ATOM 1566 N PHE 198 17.861 30.049 9.782 1.00 10.93 AAAA ATOM 1566 N PHE 198 17.861 30.049 9.782 1.00 10.93 AAAA ATOM 1566 N PHE 198 17.861 30.049 9.782 1.00 10.93 AAAA ATOM 1567 C PHE 198 20.094 30.162 48.545 1.00 23.51 AAAA ATOM 1570 C PHE 198 20.094 30.162 48.545	MOTA						25.737	53.573		
ATOM 1538 C PRO 194 12.880 27.104 52.866 1.00 16.40 AAAA ATOM 1539 O PRO 194 12.757 27.003 51.640 1.00 19.43 AAAA ATOM 1540 N GLU 195 11.828 27.151 53.681 1.00 20.57 AAAA ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1541 CA GLU 195 9.865 27.037 54.173 1.00 31.91 AAAA ATOM 1542 CE GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1543 CG GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1546 OEZ GLU 195 7.860 29.119 54.612 1.00 43.98 AAAA ATOM 1546 OEZ GLU 195 7.863 30.259 54.612 1.00 43.98 AAAA ATOM 1546 OEZ GLU 195 7.831 28.474 52.318 1.00 26.92 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1548 O GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1549 N TYR 196 11.016 29.501 52.669 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1551 CB TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1551 CB TYR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1555 CC TYR 196 10.208 31.801 52.690 1.00 20.01 AAAA ATOM 1555 CD2 TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1556 CE TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CE TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CE TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 53.853 1.00 18.24 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 54.988 1.00 18.15 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 54.988 1.00 18.12 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 54.988 1.00 18.12 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 54.988 1.00 18.12 AAAA ATOM 1556 CD2 TYR 196 12.275 33.408 54.988 1.00 18.12 AAAA ATOM 1557 CD2 TYR 196 12.275 33.408 54.988 1.00 18.12 AAAA ATOM 1560 C TYR 196 12.302 22.347 50.718 1.00 20.39 AAAA ATOM 1566 C AAAA 197 15.75 C PRO 198 10.00 20.30 AAAA ATOM 1566 C AAAA 197 15.75 C PRO 198 10.00 20.30 AAAA ATOM 1567 C PRO 198 10.	ATOM							55.007	1.00 22.34	AAAA
ATOM 1539 O PRO 194 12.757 27.003 51.640 1.00 19.43 AAAA ATOM 1540 N GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1542 CB GLU 195 8.987 28.325 54.879 1.00 45.60 AAAA ATOM 1544 CD GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1545 CE GLU 195 7.653 30.259 54.612 1.00 43.98 AAAA ATOM 1546 CE GLU 195 7.241 28.627 53.210 1.00 38.39 AAAA ATOM 1546 CE GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1547 C GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1548 O GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1548 O GLU 195 9.522 28.557 51.395 1.00 24.59 AAAA ATOM 1550 CA TXR 196 11.116 29.501 52.669 1.00 18.16 AAAA ATOM 1550 CA TXR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1550 CB TXR 196 11.024 30.753 51.922 1.00 15.81 AAAA ATOM 1555 CDZ TXR 196 11.779 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CDZ TXR 196 11.779 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CDZ TXR 196 11.799 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CDZ TXR 196 11.799 33.408 54.988 1.00 18.50 AAAA ATOM 1555 CDZ TXR 196 11.223 32.283 56.339 1.00 19.77 AAAA ATOM 1555 CDZ TXR 196 11.223 32.283 56.393 1.00 18.24 AAAA ATOM 1555 CDZ TXR 196 11.223 32.283 56.393 1.00 18.50 AAAA ATOM 1556 CZ TXR 196 11.223 32.283 56.393 1.00 18.50 AAAA ATOM 1556 CZ TXR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1556 CZ TXR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1556 CZ TXR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 N AAAA 197 15.315 32.261 52.659 1.00 20.39 AAAA ATOM 1566 C TXR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1567 C AAAA 197 15.787 29.299 1.457 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1566 C TYR 196 12.759 30.784 57.367 1.00 16.20 AAAA ATOM 1567 C PHE 198 17.861 30.	MOTA	1537	CG	PRO					1.00 16.40	AAAA
ATOM 1540 N GLU 195 10.483 27.161 53.681 1.00 20.57 AAAA ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.15 AAAA ATOM 1542 CB GLU 195 9.865 27.037 54.173 1.00 31.91 AAAA ATOM 1542 CB GLU 195 7.635 30.259 54.674 1.00 34.45 AAAA ATOM 1545 OEI GLU 195 7.635 30.259 54.674 1.00 34.45 AAAA ATOM 1546 OE2 GLU 195 7.635 30.259 54.612 1.00 38.39 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1548 O GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1549 N TYR 196 11.124 30.753 51.922 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 18.16 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.669 1.00 18.16 AAAA ATOM 1552 CG TYR 196 11.024 30.753 51.922 1.00 18.24 AAAA ATOM 1555 CDI TYR 196 11.208 31.801 52.690 1.00 20.01 AAAA ATOM 1555 CDI TYR 196 11.2407 33.898 54.988 1.00 18.24 AAAA ATOM 1555 CDI TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1556 CZZ TYR 196 10.598 31.801 55.185 1.00 18.24 AAAA ATOM 1556 CZZ TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1556 CZZ TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1556 CZZ TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1556 CZZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1557 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1557 CZ TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1559 C TYR 196 12.304 30.305 32.80 ATOM 1559 C TYR 196 12.304 30.305 32.80 ATOM 1559 C TYR 196 12.304 30.305 32.80 ATOM 1550 CZ TYR 196 12.304 30.305 32.80 ATOM 1550 CZ TYR 196 12.3	MOTA	1538	C	PRO					1 00 19 43	AAAA
ATOM 1540 N GLU 195 11.828 27.151 53.099 1.00 30.15 AAAA ATOM 1541 CA GLU 195 9.386 27.037 54.173 1.00 31.91 AAAA ATOM 1542 CB GLU 195 9.386 27.037 54.173 1.00 31.91 AAAA ATOM 1544 CD GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1544 CD GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1545 0E1 GLU 195 7.241 28.627 53.210 1.00 38.39 AAAA ATOM 1546 OE2 GLU 195 7.241 28.627 53.210 1.00 38.39 AAAA ATOM 1548 0 GLU 195 7.241 28.627 53.210 1.00 24.59 ATOM 1548 0 GLU 195 9.522 28.557 51.395 1.00 24.59 ATOM 1549 N TYR 196 11.116 29.501 52.669 1.00 18.16 AAAA ATOM 1551 CA TYR 196 11.224 30.753 51.922 1.00 15.81 ATOM 1555 CA TYR 196 10.888 32.353 53.932 1.00 19.77 AAAA ATOM 1555 CD TYR 196 10.888 32.353 53.932 1.00 19.77 AAAA ATOM 1555 CD TYR 196 10.888 32.353 53.932 1.00 19.77 AAAA ATOM 1555 CD TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CEZ TYR 196 12.2407 33.898 54.988 1.00 18.24 ATOM 1556 CEZ TYR 196 12.2407 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CD TYR 196 12.243 32.283 56.339 1.00 18.12 ATOM 1556 CD TYR 196 12.253 33.265 56.255 10.00 20.03 ATOM 1556 CD TYR 196 12.253 33.265 56.255 10.00 20.03 ATOM 1556 CD TYR 196 12.253 33.264 56.255 10.00 20.03 ATOM 1556 CD TYR 196 12.342 31.372 ATOM 1557 CD TYR 196 12.342 31.372 ATOM 1558 OH TYR 196 12.342 31.372 ATOM 1558 OH TYR 196 12.342 31.372 ATOM 1557 CD TYR 196 12.342 31.372 ATOM 1558 CD TYR 196 12.342 31.372 ATOM 1557 CD TYR 196 12.363 23.47 50.78 1.00 16.89 AAAA ATOM 1558 OH TYR 196 12.363 23.47 50.78 1.00 16.20 AAAA ATOM 1557 CD TYR 196 12.362 23.47 50.78 1.00 16.39 ATOM 1560 C TYR 196 12.362 23.47 50.78 1.00 16.39 ATOM 1560 C TYR 196 12.362 23.47 50.78 1.00 10.35 AAAA ATOM 1560 C TYR 196 12.362 23.47 50.78 1.00 10.00 20.39 AAAA ATOM 1560 C TYR 196 12.362 23.47 50.00 10.00 20.74 AAAA ATOM 1560 C PHE 198 20.094 30.162 48.652 1.00 20.74 AAAA ATOM 1560		1539	0	PRO	194					AAAA
ATOM 1541 CA GLU 195 10.483 27.161 53.099 1.00 30.191 AAAA ATOM 1542 CB GLU 195 7.880 29.119 54.173 1.00 31.91 AAAA ATOM 1543 CG GLU 195 7.880 29.119 54.174 1.00 34.45 AAAA ATOM 1546 OE2 GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1547 C GLU 195 7.241 28.627 53.210 1.00 36.39 AAAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 26.92 AAAAA ATOM 1548 O GLU 195 10.333 28.474 52.318 1.00 26.92 AAAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 18.16 AAAAA ATOM 1550 CA TYR 196 10.208 31.801 52.690 1.00 20.01 AAAAA ATOM 1555 CB TYR 196 10.208 31.801 52.690 1.00 20.01 AAAAA ATOM 1555 CD2 TYR 196 11.779 33.408 53.853 1.00 18.24 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.885 1.00 18.24 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.885 1.00 18.24 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.885 1.00 18.24 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.865 1.00 20.03 AAAAA ATOM 1556 CE2 TYR 196 12.253 33.326 56.235 1.00 20.09 AAAAA ATOM 1556 CE2 TYR 196 12.253 33.326 56.235 1.00 20.09 AAAAA ATOM 1556 CE2 TYR 196 12.253 33.326 56.235 1.00 20.09 AAAAA ATOM 1556 CE2 TYR 196 12.759 33.784 57.367 1.00 16.20 AAAAA ATOM 1556 CE2 TYR 196 12.253 33.26 56.235 1.00 20.09 AAAAA ATOM 1556 CE2 TYR 196 12.253 32.261 52.659 1.00 20.74 AAAAA ATOM 1556 CP2 TYR 196 12.759 33.784 57.367 1.00 16.20 AAAAA ATOM 1556 CP2 TYR 196 12.759 33.784 57.367 1.00 16.20 AAAAA ATOM 1556 CP2 TYR 196 12.342 31.372 51.475 1.00 16.89 AAAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAAA ATOM 1565 C AAAA 197 14.754 31.400 51.512 1.00 20.26 AAAAA ATOM 1565 C AAAA 197 14.754 31.400 51.512 1.00 20.274 AAAAA ATOM 1564 C AAAA 197 14.754 31.400 51.512 1.00 20.274 AAAAA ATOM 1565 C AAAA 197 15.787 29.299 51.457 1.00 18.93 AAAAA ATOM 1566 N PHE 198 17.861 30.099 49.321 1.00 19.93 AAAAA ATOM 1566 N PHE 198 17.861 30.099 49.321 1.00 19.95 AAAAA ATOM 1570 CP PHE 198 20.094 30.162 48.545 1.00 20.39 AAAAA ATOM 1570 CP PHE 198 20.094 30.162 48.545 1.00 20.39 AAAAA ATOM 1570 CP PHE 198 21.091 29.899 49.321 1.00 19.95 AAAAA ATOM 1570 CP PHE 198 22.290 29.145 48			N	GLU	195					
ATOM 1542 CB GLU 195 9.386 27.037 54.173 1.00 45.60 AAAA ATOM 1540 CG GLU 195 7.880 29.119 54.174 1.00 44.56 AAAA ATOM 1540 CD GLU 195 7.635 30.259 54.612 1.00 43.98 AAAA ATOM 1540 CD GLU 195 7.635 30.259 54.612 1.00 36.39 AAAA ATOM 1540 CD GLU 195 7.241 28.627 53.210 1.00 36.39 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1540 CD GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1540 CD GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1540 CD GLU 195 10.333 28.474 52.318 1.00 24.59 AAAA ATOM 1550 CD TYR 196 11.224 30.753 51.922 1.00 15.81 AAAA ATOM 1551 CD TYR 196 10.208 31.801 52.690 1.00 18.16 AAAA ATOM 1552 CG TYR 196 10.868 32.353 53.932 1.00 19.77 AAAA ATOM 1553 CD1 TYR 196 10.868 32.353 53.932 1.00 19.77 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.24 AAAA ATOM 1556 CE2 TYR 196 10.233 32.283 56.339 1.00 18.70 AAAA ATOM 1556 CD2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1558 OH TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1558 OH TYR 196 12.323 32.283 56.339 1.00 21.09 AAAA ATOM 1558 OH TYR 196 12.323 32.283 56.339 1.00 21.09 AAAA ATOM 1558 OH TYR 196 12.323 32.283 56.339 1.00 21.09 AAAA ATOM 1558 OH TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1558 OH TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C AAAA 197 13.466 30.817 51.911 1.00 17.97 AAAA ATOM 1560 C AAAA 197 13.466 30.817 51.911 1.00 17.97 AAAA ATOM 1560 C AAAA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1560 C AAAA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 13.51 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 13.51 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 19.05 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 13.51 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 13.51 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 13.51 AAAA ATOM 1560 C AAAA 197 15.814 30.0392 51.074 1.00 17.97 AAAA ATOM 1560 C						10.483	27.161		1.00 30.13	
ATOM 1543 CG GLU 195						9.385	27.037	54.173	1.00 31.91	
ATOM 1544 CD GLU 195							28.325	54.879	1.00 45.60	
ATOM 1545 OE GLU 195	ATOM							54.174	1.00 34.45	
ATOM 1546 OE2 GLU 195 7.241 28.627 53.210 1.00 38.39 AAAA ATOM 1547 C GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1540 N TYR 196 11.024 30.753 51.922 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 18.16 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 20.01 AAAAA ATOM 1552 CG TYR 196 10.208 31.801 52.690 1.00 20.01 AAAAA ATOM 1553 CD1 TYR 196 11.779 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 52.690 1.00 21.09 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.50 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 12.253 33.26 56.235 1.00 20.39 AAAA ATOM 1556 CE2 TYR 196 12.353 33.784 57.367 1.00 16.20 AAAA ATOM 1556 CE2 TYR 196 12.353 33.784 57.367 1.00 16.20 AAAA ATOM 1556 CC TYR 196 12.353 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.353 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.353 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.352 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.352 33.784 57.367 1.00 16.20 AAAA ATOM 1556 C AAAA 197 19.6 12.352 33.784 57.357 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.352 33.784 50.718 1.00 20.39 AAAA ATOM 1561 N ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1566 C AALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 N PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 23.61 AAAA ATOM 1571 CD2 PHE 198 22.290 29.899 49.321 1.00 19.90 AAAA ATOM 1577 CD1 PHE 198 22.290 29.454 48.807 1.00 19.90 AAAA ATOM 1579 CA PHE 198 18.8929 30.933 49.119 1.00 20.25 AAAA ATOM 1579 CA PHE 198 18.8929 30.933 49.119 1.00 20.35 AAAA ATOM 1579 CA PHE 198 18.8929 30.933 49.119 1.00 20.35 AAAA ATOM 1579 CA PHE 198 18.8929 30.933 49.119 1.00 20.35 AAAA ATOM 1579 CA PHE 198 18.8941 28.176 50.937 1.00 19.92 AAAA ATOM 1579 CA PHE 198 18.8929 30.933 49.119 1.00 20.35 AAAA ATO	ATOM	1544							1.00 43.98	AAAA
ATOM 1546 OE2 GLU 195 10.333 28.474 52.318 1.00 26.92 AAAA ATOM 1549 N TYR 196 11.116 29.501 52.669 1.00 18.16 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.690 1.00 18.16 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 18.77 AAAA ATOM 1552 CG TYR 196 10.588 32.353 53.932 1.00 19.77 AAAA ATOM 1553 CD1 TYR 196 11.779 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1555 CD2 TYR 196 12.233 32.265 6.235 1.00 20.39 AAAA ATOM 1555 CD2 TYR 196 12.233 32.283 56.339 1.00 18.12 AAAA ATOM 1555 CD2 TYR 196 12.233 32.265 6.235 1.00 20.39 AAAA ATOM 1556 CE2 TYR 196 12.233 32.265 6.235 1.00 20.39 AAAA ATOM 1556 CE2 TYR 196 12.233 32.265 6.235 1.00 20.39 AAAA ATOM 1558 OH TYR 196 12.323 32.283 56.339 1.00 10.09 AAAA ATOM 1558 CE2 TYR 196 12.323 32.265 6.235 1.00 20.39 AAAA ATOM 1556 CE2 TYR 196 12.323 32.265 6.235 1.00 20.39 AAAA ATOM 1558 OH TYR 196 12.336 32.347 50.718 1.00 16.20 AAAA ATOM 1556 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 14.754 31.400 51.512 1.00 20.26 AAAAA ATOM 1563 C AAAA 197 14.754 31.400 51.512 1.00 20.26 AAAAA ATOM 1566 C AALA 197 14.754 31.400 51.512 1.00 20.26 AAAAA ATOM 1566 C AALA 197 15.787 29.229 51.457 1.00 18.01 AAAA ATOM 1566 C PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 C PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 C PHE 198 17.861 30.049 49.782 1.00 19.06 AAAAA ATOM 1568 CB PHE 198 20.039 29.899 49.321 1.00 19.06 AAAAA ATOM 1570 CD2 PHE 198 20.039 29.899 49.321 1.00 19.06 AAAAA ATOM 1571 CD2 PHE 198 20.039 29.899 49.321 1.00 19.06 AAAAA ATOM 1577 CP2 PHE 198 20.039 29.899 49.321 1.00 19.06 AAAAA ATOM 1579 CA PHE 198 18.852 20.91 345 71.00 19.02 23.54 AAAAA ATOM 1579 CA PHE 198 18.852 20.91 30.933 49.119 1.00 23.51 AAAAA ATOM 1579 CA PHE 198 18.852 20.91 30.933 49.119 1.00 23.54 AAAAA ATOM 1579 CA PHE 198 18.852 20.91 35 50.053 1.00 22.70 AAAAA ATOM 1579 CA PHE 198 18.852 20.91 30.933 49.119 1.00 23.55 AAAAA ATOM 1579 CA PHE 198 18.852 20.91 30.9	ATOM								1.00 38.39	AAAA
ATOM 1547 C GLU 195 10.333 28.479 51.395 1.00 24.59 AAAA ATOM 1540 N TYR 196 11.014 30.753 51.922 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.024 30.753 51.922 1.00 18.16 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 20.01 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 19.77 AAAA ATOM 1552 CG TYR 196 10.208 31.801 52.690 1.00 18.50 AAAA ATOM 1555 CD1 TYR 196 11.779 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.50 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 20.39 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 20.39 AAAA ATOM 1555 CD2 TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1555 CT2 TYR 196 12.342 31.372 51.475 1.00 16.20 AAAA ATOM 1556 CT2 TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1556 CT2 TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1561 N ALA 197 13.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.814 30.392 51.074 1.00 17.52 AAAA ATOM 1563 CB ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 18.929 30.933 49.119 1.00 20.74 AAAA ATOM 1566 N PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1567 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1567 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 20.317 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.77 AAAA ATOM 1571 CD2 PHE 198 22.290 29.145 48.807 1.00 23.77 AAAA ATOM 1573 CD2 PHE 198 22.290 29.145 48.807 1.00 23.51 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.51 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 20.35 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 23.51 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 23.51 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 23.51 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 23.51 AAAA ATOM		1546	OE2	GLU					1 00 26 92	AAAA
ATOM 1548 O GLU 195 9.522 8.537 51.393 1.00 18.16 AAAA ATOM 1550 CA TYR 196 11.116 29.501 52.669 1.00 15.81 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 20.01 AAAA ATOM 1552 CG TYR 196 10.868 32.353 53.932 1.00 19.77 AAAA ATOM 1553 CD1 TYR 196 11.779 33.408 53.853 1.00 18.24 AAAA ATOM 1555 CD TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1555 CD TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1555 CD TYR 196 11.223 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CD TYR 196 11.223 33.326 56.235 1.00 20.39 AAAA ATOM 1556 CE2 TYR 196 12.325 33.326 56.235 1.00 20.39 AAAA ATOM 1555 CD TYR 196 12.359 33.784 57.367 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1550 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 20.26 AAAA ATOM 1566 C TYR 196 12.336 32.347 50.718 1.00 20.26 AAAA ATOM 1566 C TYR 196 12.336 32.347 50.718 1.00 17.52 AAAA ATOM 1566 C AALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1566 C AALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1566 C AALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C AALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C AALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 C AALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 C AALA 197 15.787 29.229 51.457 1.00 13.51 AAAA ATOM 1566 C AALA 197 15.7861 30.049 49.782 1.00 17.97 AAAA ATOM 1570 CD PHE 198 20.094 30.162 48.545 1.00 23.61 AAAA ATOM 1576 C PHE 198 20.094 30.162 48.749 1.00 20.38 AAAA ATOM 1576 C PHE 198 20.094 30.162 48.749 1.00 20.317 AAAA ATOM 1577 C PHE 198 22.229 29.899 49.321 1.00 19.05 AAAA ATOM 1577 C PHE 198 22.229 29.899 49.321 1.00 19.00 30.29 AAAA ATOM 1577 C PHE 198 22.229 29.899 49.321 1.00 19.00 30.29 AAAA ATOM 1577 C PHE 198 22.229 29.899 49.321 1.00 19.00 30.29 AAAA ATOM 1577 C PHE 198 22.229 29.899 49.321 1.00 19.00 20.71 AAAA ATOM 1578 C PHE 198 22.228 28.646 47.493 1.00 22.71 AAAA ATOM			С	GLU	195				1 00 24 59	
ATOM 1549 N TYR 196 11.016 29.501 52.069 1.00 18.01 AAAA ATOM 1550 CA TYR 196 10.208 31.801 52.690 1.00 20.01 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 19.77 AAAA ATOM 1552 CG TYR 196 10.868 32.353 33.321 1.00 18.24 AAAA ATOM 1554 CEI TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1555 CD2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CD2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CD2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CD2 TYR 196 12.233 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CD TYR 196 12.336 32.347 50.718 1.00 16.20 AAAA ATOM 1559 C TYR 196 12.336 32.347 50.718 1.00 16.20 AAAA ATOM 1550 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1563 CB ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1563 CB ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 12.292 9.899 49.321 1.00 20.38 AAAA ATOM 1567 CB PHE 198 20.094 30.162 48.545 1.00 23.61 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 48.545 1.00 23.61 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 29.71 AAAA ATOM 1570 CD2 PHE 198 22.290 29.899 49.321 1.00 19.05 AAAA ATOM 1570 CD2 PHE 198 22.290 29.145 48.807 1.00 20.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1570 CD2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1					195					
ATOM 1550 CA TYR 196 10.208 31.801 52.690 1.00 20.01 AAAA ATOM 1551 CB TYR 196 10.208 31.801 52.690 1.00 20.01 19.77 AAAA ATOM 1552 CG TYR 196 10.868 32.353 53.932 1.00 19.77 AAAA ATOM 1553 CD1 TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1555 CD2 TYR 196 11.223 32.283 56.339 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 11.223 32.283 56.339 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 12.427 33.898 54.988 1.00 18.50 AAAA ATOM 1556 CE2 TYR 196 12.2759 33.784 57.367 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.332 31.372 51.475 1.00 16.89 AAAA ATOM 1559 C TYR 196 12.332 31.372 51.475 1.00 20.39 AAAA ATOM 1560 C TYR 196 12.334 31.372 51.475 1.00 23.08 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1563 CB ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1566 CB ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 19.35 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1568 CB PHE 198 18.929 30.933 49.119 1.00 20.361 AAAA ATOM 1567 CA PHE 198 18.929 30.933 49.119 1.00 20.361 AAAA ATOM 1568 CB PHE 198 20.039 29.660 47.245 1.00 29.71 AAAA ATOM 1570 CD1 PHE 198 20.039 29.899 49.321 1.00 19.06 AAAA ATOM 1570 CD1 PHE 198 22.290 29.899 49.321 1.00 19.06 AAAA ATOM 1571 CD2 PHE 198 22.290 29.145 48.807 1.00 23.61 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.71 AAAA ATOM 1574 CC PHE 198 22.290 29.899 49.321 1.00 19.06 AAAA ATOM 1575 C PHE 198 22.290 29.899 49.321 1.00 19.06 AAAA ATOM 1577 N PRO 199 18.991 77.710 26.595 49.312 1.00 23.54 AAAA ATOM 1578 C PHE 198 22.2889 49.321 1.00 19.06 AAAA ATOM 1578 C PHE 198 22.2889 49.321 1.00 19.06 AAAA ATOM 1575 C PHE 198 22.2889 49.321 1.00 23.54 AAAA ATOM 1578 C PHE 198 22.286 666 47.493 1.00 23.54 AAAA ATOM 1578 C PHE 198 22.2889 49.321 1.00 20.354 AAAA ATOM 1578 C PHE 198 22.286 66					196	11.116			1.00 18.10	
ATOM 1551 CB TYR 196 10.208 31.801 52.690 10.00 19.77 AAAA ATOM 1552 CG TYR 196 10.868 32.353 53.932 1.00 19.77 AAAA ATOM 1553 CD1 TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1556 CE2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1557 CZ TYR 196 12.225 33.326 56.339 1.00 21.09 AAAA ATOM 1557 CZ TYR 196 12.125 33.326 56.235 1.00 20.39 AAAA ATOM 1558 OH TYR 196 12.326 33.326 56.235 1.00 20.39 AAAA ATOM 1559 C TYR 196 12.325 33.326 56.235 1.00 16.20 AAAA ATOM 1550 C TYR 196 12.336 32.347 50.718 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 20.26 AAAA ATOM 1560 C AAA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1563 CB ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 CB ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 CB ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1567 CA PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1567 CA PHE 198 20.094 30.162 48.545 1.00 23.61 AAAA ATOM 1567 CC PHE 198 20.094 30.162 48.545 1.00 23.71 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 48.545 1.00 23.71 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 48.545 1.00 23.71 AAAA ATOM 1577 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1577 CD2 PHE 198 22.229 29.145 48.807 1.00 23.71 AAAA ATOM 1577 CP1 PHE 198 22.229 29.899 49.321 1.00 19.06 AAAA ATOM 1577 CP1 PHE 198 22.2218 28.646 47.493 1.00 22.74 AAAA ATOM 1577 CP1 PHE 198 22.229 29.899 49.321 1.00 19.06 AAAA ATOM 1577 CP1 PHE 198 22.229 29.899 49.321 1.00 19.06 AAAA ATOM 1577 CP1 PHE 198 22.229 29.899 49.321 1.00 19.06 AAAA ATOM 1577 CP1 PHE 198 22.218 28.646 47.493 1.00 23.74 AAAA ATOM 1578 CP PHE 198 22.218 28.646 50.095 1.00 22.70 AAAAA ATOM 1578 CP PHE 198 22.218 28.666 47.993 1.00 129.92 AAAA ATOM						11.024	30.753		1.00 15.81	
ATOM 1551 CG TYR 196 10.868 32.353 53.932 1.00 19.77 AAAAA ATOM 1553 CD1 TYR 196 11.779 33.408 53.853 1.00 18.24 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAAA ATOM 1556 CE2 TYR 196 12.255 33.326 56.339 1.00 21.09 AAAAA ATOM 1556 CE2 TYR 196 12.255 33.326 56.235 1.00 20.39 AAAAA ATOM 1558 OH TYR 196 12.352 31.372 51.475 1.00 16.20 AAAAA ATOM 1559 C TYR 196 12.332 31.372 51.475 1.00 16.89 AAAAA ATOM 1550 C TYR 196 12.332 31.372 51.475 1.00 16.89 AAAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAAA ATOM 1562 CA ALA 197 15.315 32.261 52.659 1.00 20.74 AAAAA ATOM 1563 CB ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 18.01 AAAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 18.01 AAAAA ATOM 1566 CB PHE 198 16.757 30.869 50.257 1.00 19.35 AAAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAAA ATOM 1567 CA PHE 198 18.929 30.933 49.119 1.00 20.38 AAAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAAA ATOM 1570 CD2 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAAA ATOM 1571 CD2 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAAA ATOM 1577 N PRO 199 18.552 30.073 52.061 1.00 20.95 AAAAA ATOM 1577 N PRO 199 18.552 30.073 52.061 1.00 20.95 AAAAA ATOM 1577 N PRO 199 18.552 30.073 52.061 1.00 20.95 AAAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 23.16 AAAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 23.54 AAAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 23.54 AAAAA ATOM 1578 CD PRO 199 17.733 25.855 49.312 1.00 30.997 AAAAA ATOM 1580 CB PRO 199 17.733 25.855 49.312 1.00 30.997 AAAAA ATOM 1580 CB PRO 199 17.733 25.855 49.312 1.00 23.25 AAAAAATOM 1580 CB PRO 199 17.733 25.855 49.3						10.208	31.801	52.690	1.00 20.01	
ATOM 1552 CD1 TYR 196 12.407 33.898 54.988 1.00 18.24 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1555 CD2 TYR 196 11.223 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CE2 TYR 196 12.325 33.326 56.235 1.00 20.39 AAAA ATOM 1555 C TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1555 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1555 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1550 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1550 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.346 30.817 51.911 1.00 17.52 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1563 CB ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1564 C ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1565 O ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 18.01 AAAA ATOM 1566 CB PHE 198 16.757 30.869 50.257 1.00 18.01 AAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1566 CB PHE 198 20.039 29.660 47.245 1.00 29.71 AAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAA ATOM 1570 CD1 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1570 CD1 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1570 CD1 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1570 CD1 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.71 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.71 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 22.74 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 22.74 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.561 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.561 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.561 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.561 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 20.354 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.561 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 23.561 AAAA ATOM 1570 CD1 PHE 198 22.290 29.145 48.807 1.00 20.354 AA	ATOM						32.353	53.932	1.00 19.77	
ATOM 1553 CD1 TYR 196 12.407 33.898 54.988 1.00 18.50 AAAA ATOM 1555 CD2 TYR 196 10.598 31.801 55.185 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 12.125 33.326 56.235 1.00 20.39 AAAA ATOM 1557 CZ TYR 196 12.125 33.326 56.235 1.00 20.39 AAAA ATOM 1558 OH TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1550 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.342 31.372 51.475 1.00 12.308 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 23.08 AAAA ATOM 1562 CA ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1569 CG PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1569 CG PHE 198 20.094 30.162 48.545 1.00 23.61 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 A8.545 1.00 23.61 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 A8.545 1.00 29.71 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 A8.545 1.00 23.17 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1577 CD1 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.79 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1581 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1581 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1583 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1583 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1583 CB PRO 199 19.813 26.087 51.534 1.00 23.22 AAAA ATOM 1583 CB P	ATOM							53.853	1.00 18.24	
ATOM 1554 CE1 TYR 196 10.598 31.801 55.185 1.00 18.12 AAAA ATOM 1555 CD2 TYR 196 11.223 32.283 56.339 1.00 21.09 AAAA ATOM 1555 CC2 TYR 196 12.255 33.326 56.235 1.00 20.39 AAAA ATOM 1557 CC TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.759 33.784 57.367 1.00 16.89 AAAA ATOM 1559 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1550 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1562 CA ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1564 C ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 20.361 AAAA ATOM 1570 CD1 PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 23.61 AAAA ATOM 1570 CD1 PHE 198 21.229 29.889 49.321 1.00 19.06 AAAA ATOM 1571 CD2 PHE 198 21.229 29.889 46.719 1.00 30.39 AAAA ATOM 1573 CE2 PHE 198 21.229 29.889 46.719 1.00 30.39 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 22.74 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 22.74 AAAA ATOM 1575 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1575 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1578 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1578 C PHE 198 18.541 2.8176 50.937 1.00 19.92 AAAA ATOM 1578 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1578 C PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1578 C PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1578 C PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1578 C PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1578 C PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1580 C PRO 199 19.600 27.508 52.074 1.00 23.54 AAAA ATOM 1580 C PRO 199 19.600 27.508 52.074 1.00 23.54 AAAA ATOM 1580 C PRO 199 19.	MOTA	1553							1.00 18.50	AAAA
ATOM 1555 CD2 TYR 196 11.233 32.283 56.339 1.00 21.09 AAAA ATOM 1556 CE2 TYR 196 12.125 33.326 56.235 1.00 20.39 AALA ATOM 1557 CT TYR 196 12.125 33.326 56.235 1.00 20.39 AALA ATOM 1558 OH TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1559 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1562 CA ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 15.787 29.229 51.475 1.00 18.01 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1568 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1569 CG PHE 198 20.094 30.162 48.545 1.00 29.71 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 48.545 1.00 29.71 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 29.71 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1574 CC PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1577 N PRO 199 18.950 27.318 49.774 1.00 19.92 AAAA ATOM 1577 C PHE 198 22.290 29.145 48.807 1.00 29.71 AAAA ATOM 1577 N PRO 199 18.951 20.073 52.061 1.00 20.95 AAAA ATOM 1577 C PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1577 N PRO 199 18.951 50.093 71.00 19.92 AAAA ATOM 1579 CA PRO 199 18.951 50.093 71.00 19.92 AAAA ATOM 1579 CA PRO 199 18.950 27.318 49.7744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 18.990 27.318 49.7744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 18.990 27.318 49.7744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 18.990 27.318 49.7744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 29.32 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 29.32 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 29.32 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.55 AAAA ATOM 1580 CB PRO 199 19.813	ATOM	1554	CE1	TYR					1 00 18 12	AAAA
ATOM 1556 CE2 TYR 196 12.125 33.326 56.235 1.00 20.39 AAAA ATOM 1557 CZ TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1559 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1562 CA ALA 197 15.315 32.261 52.659 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C ALA 197 15.814 30.392 51.074 1.00 13.51 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1568 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1569 CG PHE 198 20.094 30.162 48.545 1.00 23.61 AAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAA ATOM 1571 CD2 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 20.317 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 20.79 AAAA ATOM 1573 CE2 PHE 198 22.291 29.899 49.321 1.00 19.96 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1577 N PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1577 CD PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1579 CA PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1579 CA PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1579 CA PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAA ATOM 1580 CB PRO 199 17.710 26.595 49.312 1.00 20.32			CD2	TYR	196 .				1 00 21 09	
ATOM 1557 CZ TYR 196 12.125 33.326 56.235 1.00 16.20 AAAA ATOM 1558 OH TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1559 C TYR 196 12.336 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1562 CA ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1565 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 19.35 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 23.361 AAAAA ATOM 1569 CG PHE 198 20.094 30.162 48.545 1.00 23.61 AAAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 23.61 AAAAA ATOM 1570 CD1 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAAA ATOM 1573 CE2 PHE 198 22.200 29.145 48.807 1.00 23.17 AAAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 22.74 AAAAA ATOM 1577 CP PHE 198 22.290 29.145 48.807 1.00 22.74 AAAAA ATOM 1577 CP PHE 198 18.453 29.419 51.032 1.00 16.02 AAAAA ATOM 1576 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAAA ATOM 1577 N PRO 199 18.990 27.318 49.744 1.00 23.54 AAAAA ATOM 1578 CD PRO 199 18.990 27.318 49.744 1.00 23.54 AAAAA ATOM 1578 CD PRO 199 18.990 27.318 49.744 1.00 23.54 AAAAA ATOM 1578 CD PRO 199 18.990 27.318 49.744 1.00 23.54 AAAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.25 AAAAA ATOM 1580 CB PRO 199 16.6621 26.795 50.054 1.00 20.32			CE2	TYR	196			_	1.00 21.05	
ATOM 1558 OH TYR 196 12.759 33.784 57.367 1.00 16.20 AAAA ATOM 1559 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1560 C TYR 196 12.346 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 18.01 AAAA ATOM 1566 N PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CA PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 18.929 30.933 49.119 1.00 20.38 AAAA ATOM 1566 CB PHE 198 20.094 30.162 48.545 1.00 29.71 AAAA ATOM 1570 CD1 PHE 198 20.094 30.162 48.545 1.00 29.71 AAAA ATOM 1571 CD2 PHE 198 20.094 30.162 48.545 1.00 29.71 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1573 CE2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1573 CE2 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1573 CE2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1575 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1579 CA PRO 199 18.991 27.318 49.744 1.00 23.54 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 22.70 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.55 AAAAA ATOM 1580 CB PRO 199 19.600 27.538 52.001 1.00 20.32 50.344 AAAA ATOM 1580 CB PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 19.600 27.538 52.001 1.00 20.32 53.44 AAAA ATOM 1580 CB PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 19.600 27.538 52.001 1.00 20.32 53.44 AAAA					196	12.125			1.00 20.39	
ATOM 1559 C TYR 196 12.342 31.372 51.475 1.00 16.89 AAAA ATOM 1550 C TYR 196 12.536 32.347 50.718 1.00 23.08 AAAA ATOM 1561 N ALA 197 13.466 30.817 51.911 1.00 17.52 AAAA ATOM 1562 CA ALA 197 14.754 31.400 51.512 1.00 20.26 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1563 CB ALA 197 15.315 32.261 52.659 1.00 20.74 AAAA ATOM 1566 C ALA 197 15.787 29.229 51.457 1.00 19.35 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 18.01 AAAA ATOM 1566 N PHE 198 16.757 30.869 50.257 1.00 18.01 AAAA ATOM 1566 CB PHE 198 17.861 30.049 49.782 1.00 17.97 AAAA ATOM 1566 CB PHE 198 20.039 29.660 47.245 1.00 23.61 AAAA ATOM 1566 CB PHE 198 20.039 29.660 47.245 1.00 23.61 AAAA ATOM 1570 CD1 PHE 198 20.039 29.660 47.245 1.00 29.71 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1571 CD2 PHE 198 21.229 29.899 49.321 1.00 19.06 AAAA ATOM 1573 CE2 PHE 198 22.218 28.646 47.493 1.00 23.17 AAAA ATOM 1574 CC PHE 198 22.218 28.646 47.493 1.00 23.17 AAAA ATOM 1575 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1579 CA PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1579 CA PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.941 28.176 50.937 1.00 22.70 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1580 CB PRO 199 19.600 27.508 52.074 1.00 23.54 AAAA ATOM 1580 CB PRO 199 17.733 25.855 48.322 1.00 23.25 AAAA ATOM 1580 CB PRO 199 17.733 25.855 48.322 1.00 23.25 AAAA AAAA ATOM 1580 CB PRO 199 17.733 25.855 48.322 1.00 23.25 AAAA AAAA ATOM 1580 CB PRO 199 17.733 25.855 48.322 1.00 23.25 AAAA AAAA ATOM 1580 CB PRO 199 17.733 25.855 48.322 1.00 23.25						12.759				
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ATOM 1572 CE1 PHE 198 22.290 29.145 48.807 1.00 23.17 AAAA ATOM 1573 CE2 PHE 198 22.218 28.646 47.493 1.00 22.74 AAAA ATOM 1574 CT PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1575 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 20.108 26.344 50.095 1.00 22.70 AAAA ATOM 1581 CG PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1582 C PRO 199 17.710 26.595 49.312 1.00 30.97 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		1571	CD:	2 PHE	198					AAAA
ATOM 1573 CE2 PHE 198 22.290 29.143 48.807 1.00 22.74 AAAA ATOM 1574 CT PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1575 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 20.108 26.344 50.095 1.00 22.70 AAAA ATOM 1581 CG PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1582 C PRO 199 17.710 26.595 49.312 1.00 30.97 AAAAA ATOM 1583 C PRO 199 17.710 26.595 49.312 1.00 30.97 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA					198					ÁAAA
ATOM 1574 CZ PHE 198 22.218 28.646 47.493 1.00 22.70 AAAA ATOM 1575 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 20.108 26.344 50.095 1.00 22.70 AAAAA ATOM 1581 CG PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1582 C PRO 199 17.710 26.595 49.312 1.00 30.97 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 20.32					198					
ATOM 1575 C PHE 198 18.453 29.419 51.032 1.00 16.02 AAAA ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 20.108 26.344 50.095 1.00 22.70 AAAAA ATOM 1581 CG PRO 199 19.813 26.087 51.534 1.00 23.16 AAAAA ATOM 1582 C PRO 199 17.710 26.595 49.312 1.00 30.97 AAAAA ATOM 1583 C PRO 199 17.710 26.595 48.322 1.00 23.25 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA						22.21	3 28.64			
ATOM 1576 C PHE 198 18.552 30.073 52.061 1.00 20.95 AAAA AAAA ATOM 1577 N PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1578 CD PRO 199 19.600 27.318 49.744 1.00 23.54 AAAA ATOM 1579 CA PRO 199 20.108 26.344 50.095 1.00 22.70 AAAA ATOM 1580 CB PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1581 CG PRO 199 17.710 26.595 49.312 1.00 30.97 AAAA ATOM 1582 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA						18.45	3 29.41	9 51.032	1.00 16.02	
ATOM 1576 C PRE 199 ATOM 1577 N PRO 199 18.941 28.176 50.937 1.00 19.92 AAAA ATOM 1578 CD PRO 199 19.600 27.508 52.074 1.00 17.86 AAAA ATOM 1579 CA PRO 199 18.990 27.318 49.744 1.00 23.54 AAAA ATOM 1580 CB PRO 199 20.108 26.344 50.095 1.00 22.70 AAAA ATOM 1581 CG PRO 199 19.813 26.087 51.534 1.00 23.16 AAAA ATOM 1582 C PRO 199 17.710 26.595 49.312 1.00 30.97 AAAA ATOM 1583 C PRO 199 17.733 25.855 48.322 1.00 23.25 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA									1.00 20.95	
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ATOM 1578 CD PRO 199 ATOM 1579 CA PRO 199 ATOM 1579 CA PRO 199 ATOM 1580 CB PRO 199 ATOM 1581 CG PRO 199 ATOM 1582 C PRO 199 ATOM 1583 O PRO 199 AAAA ATOM 1583 O PRO 199 AAAA ATOM 1583 O PRO 199 AAAAA ATOM 1583 O PRO 199 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ATOM	1577		_					1.00 17.86	
ATOM 1579 CA PRO 199 ATOM 1580 CB PRO 199 ATOM 1581 CG PRO 199 ATOM 1582 C PRO 199 ATOM 1583 O PRO 199 AAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			B. CD	PRO		19.50	0 27.30			AAAA
ATOM 1580 CB PRO 199 20.108 26.344 30.093 1.00 23.16 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA				PRO						AAAA
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ATCM 1583 0 PKG 200 16.621 26.795 50.054 1.00 20.32 AAAAA							3 25.85	_	2 1.00 25.25	
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	ATOM	1584	3 N	PHE	200	10.00		•		•
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					•			40 753	1.00 20.27	2222
MOTA	1585	CA	PHE	200		15.319	26.166	49.752		AAAA
MOTA	1586	CB	PHE	200		14.840	26.533	48.346	1.00 19.77	AAAA
ATOM	1587	CG	PHE	200		14.752	27.999	48.082	1.00 18.06	AAAA
ATOM	1588	CD1		200		15.742	28.644	47.346	1.00 18.97	AAAA
	1589	CD2		200		13.654	28.736	48.519	1.00 19.06	AAAA
MOTA		CE1		200		15.635	30.003	47.042	1.00 21.67	AAAA
MOTA	1590					13.539	30.101	48.221	1.00 22.60	AAAA
MOTA	1591	CE2		200			30.736	47.482	1.00 18.93	AAAA
MOTA	1592	CZ	PHE	200		14.527		49.845	1.00 18.44	AAAA
MOTA	1593	С	PHE	200		15.294	24.637			AAAA
MOTA	1594	0	PHE	200		14.302	24.049	50.272	1.00 20.74	
ATOM	1595	N	GLU	201		16.384	24.004	49.418	1.00 20.77	AAAA
MOTA	1596	CA	GLU	201		16.522	22.542	49.399	1.00 27.34	AAAA
MOTA	1597	CB	GLU	201		17.498	22.146	48.284	1.00 28.99	AAAA .
	1598	CG	GLU	201		17.024	22.458	46.881	1.00 34.82	AAAA
MOTA		CD	GLU	201		18.123	22.265	45.848	1.00 32.40	AAAA
ATOM	1599		GLU	201		18.701	21.155	45.769	1.00 38.28	AAAA
MOTA	1600					18.405	23.230	45.111	1.00 40.08	AAAA
MOTA	1601		GLU	201		17.007	21.891	50.695	1.00 23.51	AAAA
MOTA	1602	С	GLU	201			20.689	50.886	1.00 23.17	AAAA
ATOM	1603	0	GLU	201		16.845			1.00 20.03	AAAA
MOTA	1604	N	LYS	202		17.619	22.681	51.571	1.00 20.03	AAAA
MOTA	1605	CA	LYS	202		18.178	22.177	52.829		
ATOM	1606	CB	LYS	202		19.666	21.862	52.634	1.00 19.24	AAAA
ATOM	1607	CG	LYS	202		19.903	20.769	51.611	1.00 36.04	AAAA
MOTA	1608	CD	LYS	202		20.997	21.162	50.648	1.00 45.11	AAAA
MOTA	1609	CE	LYS	202		21.060	20.209	49.463	1.00 55.83	AAAA
	1610	NZ	LYS	202		22.024	20.662	48.422	1.00 28.09	AAAA
MOTA		C	LYS	202		18.016	23.240	53.899	1.00 17.02	AAAA
MOTA	1611			202		17.705	24.381	53.585	1.00 20.20	AAAA
MOTA	1612	0	LYS	202	•	18.232	22.875	55.160	1.00 22.94	AAAA
MOTA	1613	N	GLY			18.064	23.850	56.223	1.00 19.38	AAAA
MOTA	1614	CA	GLY	203			23.564	57.128	1.00 20.48	AAAA
MOTA	`1615	C .	GLY	203		16.874		58.070	1.00 18.55	AAAA
MOTA	1616	0	GLY	203		16.607	24.312		1.00 15.42	AAAA
MOTA	1617	N	PHE	204		16.150	22.484	56.852		AAAA
MOTA	1618	CA	PHE	204		14.983	22.143	57.670	1.00 20.73	AAAA
ATOM	1619	CB	PHE	204		14.018	21.212	56.903	1.00 19.97	
ATOM	1620	CG	PHE	204		13.441	21.838	55.667	1.00 19.63	AAAA
MOTA	1621		PHE	204		14.137	21.801	54.459	1.00 24.96	AAAA
ATOM	1622		PHE	204		12.230	22.523	55.725		AAAA
	1623		PHE	204		13.636	22.438	53.327	1.00 20.66	AAAA
MOTA	1624		PHE	204		11.720	23.169	54.597	1.00 24.86	AAAA
MOTA			PHE	204		12.422	23.127	53.400	1.00 23.66	AAAA
MOTA	1625	CZ		204		15.376	21.513	59.006	1.00 18.73	AAAA
MOTA	1626	C	PHE	204		16.415	20.851	59.131	1.00 20.18	AAAA
MOTA	1627	0	PHE			14.518	21.726	59.994	1.00 19.46	AAAA
MOTA	1628	N	LEU	205		14.727	21.244	61.356	1.00 21.09	AAAA
ATOM	1629	CA	LEU	205			21.674	62.233	1.00 23.44	AAAA
MOTA	1630	CB	LEU	205		13.547	21.222	63.693	1.00 23.23	AAAA
MOTA	1631	CG	LEU	205		13.506			1.00 24.06	AAAA
MOTA	1632	CD1	LEU	205		14.717	21.736	64.445	1.00 30.63	AAAA
ATOM	1633	CD2	LEU	205		12.224	21.743			AAAA
ATOM	1634	С	LEU	205		14.943	19.748	61.489	1.00 23.53	AAAA
ATOM	1635	0	LEU	205		15.659	19.315	62.381	1.00 21.28	
ATOM	1636	N	GLU	206		14.356	18.959	60.591	1.00 21.59	AAAA
ATOM	1637	CA	GLU	206		14.487	17.502		1.00 27.89	AAAA
ATOM	1638	CB	GLU			13.345		59.928	1.00 28.90	AAAA
	1639	CG	GLU	206		12.060	17.615	59.942	1.00 48.55	AAAA
ATOM	1640	CD	GLU	206		12.169	18.832		1.00 46.86	AAAA
MOTA			L GLU	206		11.360			1.00 21.58	AAAA
MOTA	1641					13.076				AAAA
MOTA	1642		2 GLU	206		15.819				AAAA
MOTA	1643	C	GLU	206		16.071				AAAA
MOTA	1644	0	GLU	206						AAAA
MOTA	1645	N	GLU	207		16.666				AAAA
ATOM	1646	CA	GLU	207		17.976				AAAA
ATOM	1647	CB	GLU	207		18.483				AAAA
ATOM	1648	CG	GLU	207		17.682				AAAA
ATOM	1649	CD		207		17.687	19.514		1.00 24.75	AAAA
MOTA	1650		1 GLU	207		18.738	20.182	55.948	1.00 22.17	Annn
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			CT 17	207	16.646	19.854	55.396	1.00 15.50	háhh
MOTA	1651	OE2						1.00 28.83	AAAA
ATOM	1652	C .	GLU	207	18.921	17.379			
			GLU	207	19.506	18.416	60.687	1.00 18.11	AAAA
MOTA	1653	0						1.00 21.60	AAAA
ATOM	1654	N	ILE	208	19.081	16.218			
			ILE	208	19.930	16.138	62.168	1.00 22.37	AAAA
MOTA	1655	CA			19.113	15.652	63.403	1.00 28.84	AAAA
ATOM	1656	CB	ILE	208					
		CG2	ILE	208	19.968	15.693	64.653	1.00 43.26	AAAA
MOTA	1657				17.905	16.561	63.625	1.00 21.61	AAAA
MOTA	1658	CG1	ILE	208					AAAA
	1659	CD1		.208	17.029	16.160	64.786	1.00 41.40	
MOTA					21.156	15.260	61.981	1.00 24.74	AAAA
ATOM	1660	C	ILE	208				1.00 22.68	AAAA
	1661	0	ILE	208	21.785	14.850	62.943		
ATOM					21.512	14.969	60.738	1.00 22.80	AAAA
ATOM	1662	N	GLY	209				1.00 20.43	AAAA
ATOM	1663	CA	GLY	209	22.690	14.153	60.535		
				209	22.342	12.769	60.037	1.00 25.56	AAAA
ATOM	1664	C	GLY				59.850	1.00 25.22	AAAA
MOTA	1665	0	GLY	209	21.165	12.447		1,00 25.22	
				210	23.373	11.944	59.888	1.00 26.07	AAAA
MOTA	1666	N	GLU			10.601	59.348	1.00 25.78	AAAA
MOTA	1667	CA	GLU	210	23.235			200 20 27	AAAA
	1668	СВ	GLU	210	23.404	10.731	57.835	1.00 28.27	
MOTA					23.041	9.569	56.965	1.00 56.41	AAAA
MOTA	1669	CG	GLU	210				1.00 65.37	AAAA
	1670	CD	GLU	210	23.170	9.952	55.495	1.00 53.57	
ATOM					24.290	10.327	55.075	1.00 52.00	AAAA
MOTA	1671		GLU	210			54.768	1.00 73.24	AAAA
ATOM	1672	OE2	GLU	210	22.153	9.894		1.00 75.21	
			GLU	210	24.329	9.709	59.936	1.00 31.85	AAAA
ATOM	1673	С					60.217	1.00 28.85	AAAA
ATOM	1674	0	GLU	210	25.447	10.170		2.00 20.02	AAAA
		N	GLY	211	24.012	8.431	60.121	1.00 27.84	
ATOM	1675				24.991	7.502	60.657	1.00 26.25	AAAA
MOTA	1676	CA	GLY	211				1.00 27.79	مَمْمَم
	1677	С	GLY	211	25.545	7.942	61.995	1.00 27.79	
MOTA					24.788	8.324	62.874	1.00 28.66	AAAA
MOTA	1678	0	GLY	211			62.150	1.00 34.62	አ አአአ
ATOM	1679	N	LYS	212	26.865	7.880			
			LYS	212	27.512	8.287	63.393	1.00 34.39	AAAA
MOTA	1680	CA				8.132	63.273	1.00 40.40	AAAA
MOTA	1681	CB	LYS	212	29.029			1 20 52 07	AAAA
	1682	CG	LYS	212	29.505	6.712	62.996	1.00 53.97	
MOTA					29.139	5.770	64.131	1.00 61.93	AAAA
ATOM	1683	CD	LYS	212				1.00 62.74	AAAA
ATOM	1684	CE	LYS	212	29.612	4.347	63.863	1.00 02.74	
				212	31.091	4.258	63.711	1.00 70.11	AAAA
MOTA	1685	NZ	LYS			9.741	63.725	1.00 36.04	$\lambda\lambda\lambda\lambda\lambda$
ATOM	1686	С	LYS	212	27.181			1.00 30.34	AAAA
	1687	Ō	LYS	212	27.109	10.126	64.897	1.00 28.34	
MOTA					26.959	10.543	62.688	1.00 31.47	AAAA
MOTA	1688	11	GLY	213				1.00 31.68	aaaa
	1689	CA	GLY	213	26.648	11.948	62.898	1.00 31.00	
MOTA				213	25.189	12.291	63.142	1.00 28.78	AAAA.
ATOM	1690	С	GLY			13.460	63.259	1.00 22.56	AAAA
MOTA	1691	0	GLY	213	24.840			1.00 28.54	AAAA
	1692	N	LYS	214	24.317	11.292		1.00 28.54	
MOTA				214	22.905	11.585	63.463	1.00 31.11	AAAA
ATOM	1693	CA	LYS			10.005		1.00 31.03	AAAA
ATOM	1694	CB	LYS	214	22.080				AAAA
		CG	LYS	214	20.583	10.461	63.224	1.00 38.15	
ATOM	1695				19.968		62.844	1.00 40.49	AAAA
MOTA	1696	CD	LYS	214				1.00 48.02	AAAA
	1697	CE	LYS	214	18.490	9.220		1.00 40.02	
MOTA					17.927		62.064	1.00 44.99	AAAA
ATOM	1698	NZ	LYS	214				1.00 26.90	AAAA
ATOM	1699	С	LYS	214	22.834			1.00 20.30	AAAA
			LYS	214	23.260	11.524	65.831	1.00 33.33	
MOTA	1700	0						1.00 24.38	AAAA
MOTA	1701	N	GLY	215	22.310				AAAA
	1702		GLY	215	22.230	14.034		1.00 28.03	
MOTA					23.298		66.447	1.00 27.03	AAAA
ATOM	1703	Ç	GLY	215				1.00 23.34	AAAA
	1704	0	GLY	215	23.352				
ATOM				.216	24.152	15.260	65.439	1.00 22.79	AAAA
MOTA	1705	N	TYR					- -	AAAA
ATOM	1706	CA	TYR	216	25.217			1 00 20 54	AAAA
	1707		TYR	216	26.592	15.576	65.406		
MOTA					26.900		66.581	1.00 26.47	AAAA
ATOM	1708	CG		216					AAAA
	1709		1 TYR	216	26.221				
atom					26.455	12.660	67.872	1.00 33.08	AAAA
ATOM	1710		1 TYR	216					AAAA
ATOM	1711	מס	2 TYR	216	27.832	15.05			AAAA
				216	28.074	1 14.254	4 68.675	1.00 34.45	
ATOM	1712								AAAA
'ATOM	1713	CZ	TYR	216	27.378				AAAA
				216	27.580				
ATOM					25.10	4 17.39	1 64.493	1.00 22.57	AAAA
ATOM			TYR						aaaa
* TOM	:716	. 0	TYR	216	26.09	, 10.01	2 03.220	==	

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				217	23.889	17.635	64.027	1.00 22.88	AAAA
ATOM	1717	N	ASN	217	23.621	18.729	63.109	1.00 22.60	AAAA
MOTA	1718	CA	ASN	217	23.453	18.240	61.671	1.00 16.61	AAAA
MOTA	1719	CB	ASN	217	23.233	19.387	60.695	1.00 17.16	AAAA
MOTA	1720	CG	ASN	217	22.098	19.704	60.307	1.00 20.23	AAAA
ATOM	1721	OD1		217		20:032	60.309	1.00 12.18	AAAA
MOTA	1722	ND2		217	24.320	19.296	63.630	1.00 17.65	AAAA
MOTA	1723.	С	ASN	217	22.311		63.894	1.00 17.63	AAAA
ATOM	1724	0	ASN	217	21.381	18.550		1.00 17.03	AAAA
ATOM	1725	N	LEU	218	22.236	20.610	63.793	1.00 21.00	AAAA
MOTA	1726	CA	LEU	218	21.014	21.197	64.320	1.00 21.20	AAAA
MOTA	1727	CB	LEU	218	21.186	21.547	65.808		
MOTA	1728	CG	LEU	218	19.906	21.702	66.647	1.00 32.30	AAAA
MOTA	1729	CD1	LEU	218	20.228	22.427	67.944	1.00 24.51	AAAA
MOTA	1730	CD2	LEU	218	18.862	22.464	65.903	1.00 40.08	AAAA
MOTA	1731	С	LEU	218	20.700	22.459	63.554	1.00 19.46	AAAA
MOTA	1732	0	LEU	218	21.467	23.425	63.615-	1.00 16.70	AAAA
ATOM	1733	N	ASN	219	19.590	22.441	62.824	1.00 15.43	AAAA
ATOM	1734	CA	ASN	219	19.143	23.609	62.072	1.00 14.05	AAAA
ATOM	1735	CB	ASN	219	18.634	23.232	60.665	1.00 15.92	AAAA
ATOM	1736	CG	ASN	219	19.732	22.738	59.750	1.00 22.73	AAAA
ATOM	1737		ASN	219	20,861	23.232	59.802	1.00 17.90	AAAA
ATOM	1738	ND2	ASN	219	19.398	21.789	58.868	1.00 16.62	AAAA
ATOM	1739	С	ASN	219	17.990	24.256	62.821	1.00 21.98	AAAA
ATOM	1740	ŏ	ASN	219	17.075	23.569	63.262		AAAA
ATOM	1741	N	ILE	220	18.025	25.580	62.952	1.00 16.82	AAAA
ATOM	1742	CA	ILE	220	16.951	26.298	63.640	1.00 13.22	AAAA
ATOM	1743	CB	ILE	220	17.522	27.115	64.823	1.00 15.70	AAAA
MOTA	1744		ILE	220	16.411	27.912	65.479	1.00 15.18	AAAA
ATOM	1745		ILE	220	18.246	26.193	65.823	1.00 19.11	AAAA
ATOM	1746		ILE	220	17.350	25.259	66.632	1.00 22.75	AAAA
ATOM	1747	C	ILE	220	16.363	27.246	62.573	1.00 18.80	AAAA
ATOM	1748	Ö	ILE	220	16.810	28.386	62.419	1.00 15.52	AAAA
ATOM	1749	N	PRO	221	15.341	26.790	61.826	1.00 16.72	AAAA
ATOM	1750	CD	PRO	221 .	14.612	25.518	61.906	1.00 18.83	AAAA
ATOM	1751	CA	PRO	221	14.739	27.628	60.785	1.00 19.83	AAAA
ATOM	1752	CB	PRO	221	13.930	26.615	59.948	1.00 20.76	AAAA
ATOM	1753	CG	PRO	221	14.409	25.241	60.462	1.00 28.73	AAAA
MOTA	1754	C	PRO	221	13.849	28.664	61.444	1.00 21.26	AAAA
ATOM	1755	Ö	PRO	221	13.061	28.318	62.314	1.00 22.46	AAAA
ATOM	1756	N	LEU	222	13.977	29.926	61.028	1.00 19.70	AAAA
ATOM	1757	CA	LEU	222	13.209	31.018	61.612	1.00 21.62	AAAA
ATOM	1758	CB	LEU	222	14.163	31.972	62.319	1.00 16.46	AAAA
ATOM	1759	CG	LEU	222	14.868	31.232	63.466	1.00 18.65	AAAA
ATOM	1760		LEU	222	16.026	32.072	64.014	1.00 21.32	AAAA
MOTA	1761		LEU	222	13.857	30.925	64.555	1.00 19.98	AAAA
MOTA	1762	c	LEU	222	12.350	31.763	60.590	1.00 19.68	AAAA
ATOM	1763	ō	LEU	222	12.687	31.830	59.412	1.00 18.07	AAAA
ATOM	1764	N	PRO	223	11.220	32.329	61.042	1.00 19.37	AAAA
ATOM	1765	CD	PRO	223	10.723	32.249	62.431	1.00 17.38	AAAA
ATOM	1766	CA	PRO	223	10.264	33.065	60.203	1.00 19.59	AAAA
ATOM	1767	CB	PRO	223	9.006	33.083	61.074	1.00 20.08	AAAA
ATOM	1768	CG	PRO	223	9.608	33.304	62.441	1.00 21.96	AAAA
	1769	C	PRO	223	10.606	34.458	59.723	1.00 23.15	AAAA.
MOTA MOTA	1770	Ö	PRO	223	11.525	35.101	60.214	1.00 15.81	AAAA
	1771	N	LYS	224	9.830	34.912	58.745	1.00 16.41	AAAA
ATOM		CA	LYS	224	9.975	36.254	58.200	1.00 16.11	AAAA
ATOM	1772		LYS	224	9.002	36.446		1.00 20.34	AAAA
MOTA	1773	CB	LYS	224	9.163	35.441		1.00 19.33	AAAA
ATOM	1774	CG		224	8.109	35.687		1.00 25.49	AAAA
MOTA	1775	CD	LYS		8.209	34.624		1.00 24.14	AAAA
MOTA	1776	CE	LYS	224	7.207	34.843			AAAA
ATCM	1777	NZ	LYS	224	9.638	37.289			AAAA
MOTA	1778	C	LYS	224	8.819	37.032		_	AAAA
ATOM	1779	0	LYS	224 225	10.239				AAAA
ATOM	1780	N	GLY		9.974				AAAA
MOTA	1781	CA	GLY	225 225	10.556				AAAA
MOTA	1782	С	GLY		10.550	-,.200			•

		_	CT V	225	10	.128	39.912	62.468	1.00 20.66	AAAA	
ATOM	1783	-	GLY			.540	38.395		1.00 20.37	AAAA	
ATOM	1784		LEU	226		.154	38.063		1.00 18.71	AAAA	
ATOM	1785		LEU	226	-	.354			1.00 13.63	AAAA	
ATOM	1786		LEU	226			36.443		1.00 18.44	AAAA	
MOTA	1787		LEU	226		.836			1.00 18.09	AAAA	
ATOM -	1788	CD1	LEU	226		.834	35.329	· · ·	1.00 17.96	AAAA	
ATOM	1789	CD2		226		.232	35.844	•		AAAA	
ATOM	1790		LEU	226	12	.649	39.309		1.00 19.84		
ATOM	1791		LEU	226	13	.320	40.151	63.052	1.00 18.13	AAAA	
	1792	-	ASN	227	12	.336	39.421	64.932	1.00 23.30	AAAA	
MOTA			ASN	227	12	.815	40.571	65.692	1.00 20.88	AAAA	
MOTA	1793		ASN	.227		. 682	41.261	66.485	1.00 21.73	AAAA	
MOTA	1794			227		.061	40.368	67.546 -	1.00 20.47	AAAA	
MOTA	1795		ASN	227		.762	39.736	68.341	1.00 23.80	AAAA	
MOTA	1796	OD1				729	40.340	67.581	1.00 21.08	AAAA	
MOTA	1797	ND2		227		3.950	40.152	66.612	1.00 25.24	- AAAA	
ATOM	1798	С	ASN	227			38.965	66.702	1.00 18.54	AAAA	
ATOM	1799	0	ASN	227		1.282	41.124	67.296	1.00 19.41	AAAA	
ATOM	1800	N	ASP	228		1.547		68.169	1.00 22.15	AAAA	
MOTA	1801	CA	ASP	228		5.682	40.844		1.00 16.82	AAAA	
ATOM	1802	CB	ASP	228		5.208	42.141	68.802	1.00 30.68	AAAA	
ATOM	1803	CG	ASP	228		5.852	43.060	67.796		AAAA	
ATOM	1804	OD1		228	1	7.182	42.576	66.690	1.00 23.87		
ATOM	1805	OD2		228	1	7.053	44.256	68.123	1.00 25.02	AAAA	
ATOM	1806	C	ASP	228	1.5	5.440	39.835	69.265	1.00 18.83	, AAAA	
	1807	Ō	ASP	228	1	6.298	39.002	69.536	1.00 16.28	AAAA	
MOTA		Ŋ	ASN	229	1.	4.291	39.930	69.928	1.00 20.73	AAAA	
MOTA	1808		ASN	229		3.975	39.015	71.007	1.00 21.75	AAAA	
MOTA	1809	CA	ASN	229		2.706	39.483	71.712	1.00 19.46	AAAA	
MOTA	1810	CB		229		2.943	40.738	72.516	1.00 27.14	AAAA	
MOTA	1811	CG	ASN	229		3.588	40.691	73.556	1.00 33.03	AAAA	
ATOM	1812		ASN			2.464	41.874	72.019	1.00 21.35	AAAA	
MOTA	1813		ASN	229		3.833	37.596	70.503	1.00 18.47	AAAA	
MOTA	1814	C	ASN	229		4.284	36.644		1.00 22.47	AAAA	ı.
ATOM	1815	0	ЯSИ	229			37.454	69.319	1.00 17.79	AAAA	
MOTA	1816	N	GLU	230		3.252	36.125	68.748	1.00 21.18	AAAA	
ATOM	1817	CA	GLU	230		3.081		67.536	1.00 20.54	AAAA	١.
ATOM	1818	CB	GLU	230		2.152	36.193	67.890	1.00 28.98	AAAA	
MOTA	1819	CG	GLU	230	1	0.765	36.714	66.677	1.00 24.35	AAAA	
MOTA	1820	CD	GLU	230		9.870	36.816		1.00 22.00	AAAA	
MOTA	1821		GLU	230	1	0.360	37.296	65.638	1.00 24.99	AAAA	
ATOM	1822	OE2	GLU	230		8.683	36.443	66.772	1.00 24.33	AAAA	
MOTA	1823	С	GLU	230		4.422	35.507	68.361	1.00 10.85	AAAA	
MOTA	1824	C	GLU	230.		4.663	34.326	68.603	1.00 15.45	AAA	
ATOM	1825	N	PHE	231	-	5.305	36.305	67.772	1.00 15.68	AAA	
ATOM	1826	CA	PHE	231	1	6.616	35.788	67.389	1.00 15.78		
	1827	CB	PHE	231		7.420	36.863		1.00 13.22	AAA	
ATOM			PHE	231	1	8.719	36.361	66.069	1 00 20 63	AAA	
ATOM	1828 1829		PHE	231	. 1	8.723	35.445		1 00 18.42	AAA	
MOTA			PHE	231		9.936	36.804	66.568	1 70 21.10	AAA	
MOTA	1830		PHE	231		9.918	34.983	64.471	1.00 17.67	AAA	
ATOM	1831			231		1.144	36.346	66.029	1.00 28.29	AAA	
MOTA	1832		PHE	231		1.130	35.431		1.00 27.85	AAA	
MOTA	1833	CZ	PHE			7.385	35.332		1.00 18.54	AAA	A
ATOM	1834	С	PHE	231	-	.7.869	34.201		1.00 18.86	AAA	Α,
MOTA	1835	0	PHE	231			36.204			AAA	А
MOTA	1836	N	LEU	232		17.495				AAA	Α
MOTA	1837	CA	LEU	232		18.239				AAA	Α
ATOM	1838	CB	LEU	232		18.415				AAA	
MOTA	1839	CG	LEU	232		19.214	38.202			AAA	
ATOM	1840	CDI	LEU	232		19.134				AAA	
ATOM	1841		LEU	232		20.659	37.806			AAA	
MOTA	1842		LEU	232		17.607					
	1843		LEU	232		18.309	33.904				
ATOM			PHE	233		16.281	. 34.640		1.00 17.18	AAA	
ATOM	1844			233		15.587				AAA	
ATOM	1845		PHE	233		14.074			1.00 19.17	AAA	
ATOM	1846					13.289			1.00 21.40	AAA	
ATCM	1847					12.863	32.30			LAA	١A
TOM	1848	CD	1 PHE	233				-			

					12.942	31.473	71.596	1.00 19.92	AAAA
ATOM	1849	CD2		233			74.229	1.00 29.35	AAAA
MOTA	1850	CE1	PHE	233	12.088	31.206			
MOTA	1851	CE2	PHE	233	12.168	30.363	71.966	1.00 25.37	AAAA
ATOM	1852	CZ	PHE	233	11.737	30.231	73.283	1.00 30.28	AAAA
	1853	Ċ	PHE	233	16.041	32.234	71.660	1.00 23.12	AAAA
MOTA				233	16.433	31.273	72.332	1.00 18.35	AAAA
MOTA	1854	0	PHE				70.332	1.00 17.26	AAAA
MOTA	1855	N	ALA	234	15.961	32.208			AAAA
MOTA	1856	CA	ALA	234	16.332	31.026	69.562	1.00 17.67	
ATOM	1857	CB	ALA	234	16.085	31.297	68.046	1.00 19.08	AAAA
	1858	C	ALA	234	17.786	30.641	69.800	1.00 16.31	AAAA
ATCM				234	18.127	29.461	69.926	1.00 16.75	AAAA
ATOM	1859	0	.ALA			31.643	69.846	1.00 16.73	AAAA
ATOM	1860	N	LEU	235	18.646			1.00 19.14	AAAA
MOTA	1861	CA	LEU	235	20.074	31.411	70.051		
ATOM	1862	CB	LEU	235	20.823	32.742	69.956	1.00 21.72	AAAA
ATOM	1863	CG	LEU	235	22.226	32.790	69.345	1.00 36.73	AAAA
	1864		LEU	235	23.026	33.844	70.105	1.00 20.69	AAAA
MOTA				235	22.917	31.426	69.393	1.00 22.96	AAAA
ATOM	1865		LEU		20.354	30.776	71.421	1.00 18.71	AAAA
ATOM	1866	С	LEU	235			71.522	1.00 18.59	AAAA
MOTA	1867	0	LEU	235	21.028	29.747			AAAA
ATOM	1868	N	GLU	236	19.831	31.390	72.479	1.00 25.43	
ATOM	1869	CA	GLU	236	20.046	30.883	73.839	1.00 19.75	AAAA
	1870	CB	GLU	236	19.335	31.777	74.860	1.00 23.18	AAAA
MOTA				236	19.725	33.229	74.777	1.00 38.53	AAAA
MOTA	1871	CG	GLU		18:857	34:119	75.648	1.00 42.42	AAAA
MOTA	1872	CD	GLU	236			75.428	1.00 45.43	AAAA
MOTA	1873	OE1	GLU	236	17.617	34.171			AAAA
ATOM	1874	OE2	GLU	236	19.425	34.768	76.548	1.00 48.76	
ATOM	1875	С	GLU	236	19.541	29.452	74.011	1.00 25.85	AAAA
	1876	ō	GLU	236	20.222	28.603	74.597	1.00 21.36	AAAA
ATOM	1877	N	LYS	237	18.343	29.193	73.501	1.00 23.16	AAAA
MOTA				237	17.752	27.871	73.610	1.00 17.06	AAAA
MOTA	1878	CA	LYS			27.943	73.193	1.00 26.98	AAAA
ATOM	1879	CB	LYS	237	16.282		73.519	1.00 52.00	AAAA
MOTA	1880	CG	LYS	237	15.483	26.711		1.00 56.40	AAAA
MOTA	1881	CD	LYS	237	14.078		. 73.932		
ATOM	1882	CE	LYS	237	14.131	27.979	75.183	1.00 52.03	AAAA
	1883	NZ	LYS	237	12.782	28.421	75.614	1.00 55.53	AAAA
ATOM	1884	C	LYS	237	18.502	26.827	72.785	1.00 18.46	AAAA
ATOM				237	18.691	25.692	73.231	1.00 21.20	AAAA
MOTA	1885	0	LYS		18.932	27.187	71.578	1.00 21.28	AAAA
MOTA	1886	N	SER	238		26.208	70.776	1.00 16.47	AAAA
ATOM	1887	CA	SER	238	19.649			1.00 19.75	AAAA
ATOM	1888	CB	SER	238	19.745	26.666	69.307	1.00 19.75	AAAA
ATOM	1889	OG	SER	238	20.475	27.858	69.160	1.00 22.52	
MOTA	1890	С	SER	238	21.039	25.923	71.361	1.00 18.79	AAAA
	1891	ō	SER	238	21.521	24.788	71.312	1.00 20.60	AAAA
MOTA			LEU	239	21.690	26.937	71.925	1.00 22.95	AAAA
MOTA	1892	N			23.004	26.701	72.513	1.00 20.98	AAAA
MOTA	1893	CA	LEU	239	23.652	28.008	72.986	1.00 18.39	AAAA
MOTA	1894	CB.	LEU	239				1.00 20.02	AAAA
ATOM	1895	CG	LEU	239	23.985		71.933		AAAA
MOTA	1896	CDi	LEU	239	24.538	30.311	72.636	1.00 27.02	
ATOM	1897		LEU	239	25.010	28.556	70.933	1.00 20.31	AAAA
	1898	C	LEU	239	22.882	25.735	73.680	1.00 25.16	AAAA
MOTA				239	23.780	24.929	73.920	1.00 20.70	AAAA
ATOM	1899	0	LEU		21.768	25.800		1.00 24.93	AAAA
MOTA	1900	N	GLU	240		24.912		1.00 25.72	AAAA
MOTA	1901	CA	GLU	240	21.570			1.00 29.10	AAAA
MOTA	1902	CB	GLU	240	20.331	25.356		1.00 29.10	AAAA
ATOM	1903	CG	GLU	240	20.042	24.531		1.00 49.56	
ATOM	1904	CD	GLU	240	19.053	25.212	78.515	1.00 63.15	AAAA
	1905		L GLU	240	17.935	25.550	78.067	1.00 69.26	AAAA
MOTA				240	19.400			1.00 66.68	AAAA
MOTA	1906		2 GLU		21.440				AAAA
MOTA	1907	С	GLU	240				-	AAAA
ATOM	1908	0	GLU	240	21.951				AAAA
MOTA	1909	N	ILE	341	20.771				
ATOM	1910	CA	ILE	241	20.598				AAAA
		CB	ILE	241	19.705		72.052	1.00 23.80	AAAA
MOTA	1911		2 ILE	241	19.718			1.00 24.94	AAAA
ATOM	1912				18.281				AAAA
ATOM	1913		1 ILE	241					AAAA
ATOM	1914	CD	1 ILE	241	17.336	22.000	, ,1.231	2.00 27.03	•

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MOTA	1915	С	ILE	241	21.957	21.404		1.00 25.48	AAAA
	1916	Ö	ILE	241	22.244	20.234		1.00 19.43	AAAA
ATOM				242	22.799	22.235	72.334	1.00 20.41	AAAA
ATOM	1917		VAL		24.116	21.782		1.00 23.17	AAAA
ATOM	1918		VAL	242			71.107	1.00 26.48	AAAA
ATOM	1919	CB	VAL	242	24.853	22.856		1.00 18.67	AAAA
ATOM	1920	CG1	VAL	242	26.273	22.394			
	1921	CG2		242	24.093	23.135	69.802	1.00 26.97	AAAA
MOTA			VAL	242	24.962	21.456	73.154	1.00 24.81	AAAA
MOTA	1922	С			25.566	20.384	73.235	1.00 22.49	AAAA
ATOM	1923	0	VAL	242		22.387	74.102	1.00 25.06	AA.A.A
ATOM	1924	N	LYS	243	24.989			1.00 32.57	AAAA
ATOM	1925	CA	LYS	243	25.775	22.202	75.311		AAAA
ATOM	1926	CB	LYS	243	25.599	23.3 7 9	76.272	1.00 28.53	
	1927	CG	LYS	243	26.386	23.183	77.568	1.00 43.21	AAAA
MOTA				243	26.022	24.191	78.653	1.00 53.10	AAAA
ATOM	1928	CD	LYS		26.407	25.607	78.287	1.00 50.30	AAAA
MOTA	1929	CE	LYS	243	_	26.548	79.389	1.00 59.15	AAAA
MOTA	1930	NZ	LYS	243	26.045			1.00 30.38	AAAA
ATOM	1931	С	LYS	243	25.433	20.917	76.046		AAAA
ATOM	1932	0	LYS	243	26.321	20.255	76.578	1.00 35.44	
	1933	N	GLU	244	24.161	20.542	76.076	1.00 28.12	AAAA
ATOM		CA	GLU	244	23.798	19.320	76.798	1.00 37.54	AAAA
MOTA	1934			244	22.288	19.260	77.048	1.00 35.34	AAAA
MOTA	1935	CB	GLU		21.735	20.459	77.816	1.00 55.88	AAAA
ATOM	1936	CG	GLU	244			7.8.230	1.00 57.89	AAAA
ATOM	1937	CD	GLU	244	20.281	20.275		1.00 60.60	AAAA
ATOM	1938	OE1	GLU	244	19.673	21.246	78.738		
	1939	OE2	GLU	244	19.753	19.152	78.062	1.00 57.73	AAAA
ATOM			GLU	244	24.231	18.034	76.102	1.00 38.17	AAAA
ATOM	1940	C			24.294	16.978	76.727	1.00 38.46	AAAA
ATOM	1941	0	GLU	244	24.541	18.124	74.817	1.00 30.29	AAAA
ATOM	1942	N	VAL	245			74.042	1.00 39.17	AAAA
ATOM	1943	CA	VAL	245	24.933	16.958		1.00 46.68	AAAA
ATOM	1944	CB	VAL	245	23.984	16.778	72.833	1.00 40.00	AAAA
ATOM	1945		VAL	245	24.462	15.641	71.942	1.00 53.09	
	1946		VAL	245	22.581	16.488	73.327	1.00 54.19	AAAA
MOTA			VAL	245	26.364	16.982	73.508	1.00 34.90	AAAA
MOTA	1947	C			26.915	15.939	73.164	1.00 34.73	AAAA
MOTA	1948	0	VAL	245		18.156	73.465	1.00 29.22	AAAA
MOTA	1949	И	PHE	246	26.980		72.897	1.00 29.17	AAAA
ATOM	1950	ÇA	PHE	246	28.324	18.256		1.00 30.42	AAAA
ATOM	1951	CB	PHE	246	28.178	18.800	71.464		AAAA
MOTA	1952	CG	PHE	246	29.384	18.588	70.585	1.00 25.62	
	1953		PHE	246	29.695	17.326	70.097	1.00 28.89	AAAA
ATOM			PHE	246	30.167	19.668	70.196	1.00 25.17	AAAA
ATOM	1954				30.771	17.138	69.222	1.00 23.43	AAAA
MOTA	1955		PHE	246	31.248	19.495	69.322	1.00 22.40	AAAA
ATOM	1956	CE2	PHE	246			68.835	1.00 19.88	AAAA
MOTA	1957	CZ	PHE	246	31.549			1.00 23.38	AAAA
ATOM	1958	С	PHE	246	29.233	19.176	73.712	1.00 29.15	AAAA
ATOM	1959	0	PHE	246	28.867	20.312	74.002	1.00 29.13	AAAA
	1960	N	GLU	247	30.410	18.682	74.094	1.00 29.73	
ATOM			GLU	247	31.395	19.481	74.841	1.00 28.10	AAAA
MOTA	1961	CA		247	31.912		76.074	1.00 35.75	AAAA
ATCM	1962	СB	GLU		30.972			1.00 60.78	AAAA
MOTA	1963	CG	GLU	247				1.00 70.07.	AAAA
ATOM	1964	CD	GLU	247	29.700				AAAA
MOTA	1965	OE:	GLU	247	28.913				AAAA
ATOM	1966		GLU	247	29.481	16.920			AAAA
	1967	c c	GLU	247	32.554	19.741	73.876	1.00 28.90	
MOTA				247	33.490		73.778	1.00 23.67	AAAA
ATOM	1968	0	GLU		32.531			1.00 25.02	AAAA
ATOM	1969	N	PRO	248					AAAA
ATOM	1970	CD	PRO	248	31.574				AAAA
ATOM	1971	CA	PRO	248	33.566				AAAA
ATOM	1972	CB	PRO	248	33.050				AAAA
	1973	CG	PRO		31.551				
ATOM					34.968		5 72.77 0	1.00 23.87	AAAA
ATOM	1974	C	PRO		35.132			1.00 24-05	AAAA
ATOM	1975	0	PRO		35.965				AAAA
ATOM	1976	N	GLU						AAAA
STOM	1977	CA	GLU		37.366				AAAA
ATOM	1978	_	GLU	249	38.27				AAAA
	1979				38.046	5 18.726			AAAA
MOTA			GLU		39.00		7 71.445	1.00 29.15	AAAA

ATOM	1981	OE1	GLU	249	39.071	17.770	70.199	1.00 27.62	AAAA
MOTA	1982	OE2		249	39.694	17.004	72.161	1.00 26.19	AAAA
MOTA	1983		GLU	249	37.692	22.561	71.786	1.00 26.04	AAAA
MOTA	1984		GLU	249	38.582	23.271	72.262	1.00 26.39	AAAA
ATOM	1985	N	VAL-	250	36.953	22.921	70.744	1.00 23.83	AAAA
ATOM	1986		VAL	250	37.151	24197	70.086	1.00 19.67	AAAA
ATOM	1987	CB	VAL	250	38.438	24.178	69.210	1.00 20.88	AAAA
ATOM	1988	CG1	VAL	250	38.348	23.117	68.128	1.00 18.18	AAAA
MOTA	1989	CG2	VAL	.250	38.647	25.530	68.591	1.00 16.71	AAAA
MOTA	1990	С	VAL	250	35.946	24.483	69.207	1.00 20.78	AAAA
MOTA	1991	0	VAL	250	. 35.299	23.556	68.746	1.00 19.60	AAAA
MOTA	1992	N	TYR	251	35.633	25.757	69.000	1.00 18.75 1.00 22.44	AAAA AAAA
MOTA	1993	CA	TYR	251	34.497	26.109	68.153		AAAA
MOTA	1994	CB	TYR	251	33.261	26.437	69.022 69.575	1.00 16.57 1.00 22.36	AAAA
MOTA	1995	CG	TYR	251	33.207	27.856	68.823	1.00 22.36	AAAA
ATOM	1996	CD1	TYR	251	32.654 32.612	28.896 30.185	69.308	1.00 20.40	AAAA
MOTA	1997	CEl	TYR	251	32.612	28.160	70.842	1.00 20.04	AAAA
MOTA	1998	CD2	TYR	251 251	33.713	29.475	71.349	1.00 16.60	AAAA
MOTA	1999	CE2	TYR TYR	251	33.128	30.473	70.573	1.00 14.68	AAAA
ATOM	2000 2001	CZ OH	TYR	251	33.120	31.780	71.011	1.00 21.79	AAAA
MOTA	2001	C	TYR	251	34.811	27.294	67.236	1.00 20.28	AAAA
MOTA	2002	0	TYR	251	35.695	28.107	67.525	1.00 19.91	AAAA
MOTA MOTA	2003	N	LEU	252	34.097	27.360	66.109	1.00 17.90	AAAA
ATOM	2005	CA	LEU	252	34.216	28.466	65.161	1.00 18.58	ሕሕሕሕ
ATOM	2006	CB	LEU	252	34.679	28.001	63.767	1.00 17.55	AAAA
ATOM	2007	CG	LEU	252	36.028	27.290	63.718	1.00 23.36	AAAA
ATOM	2008		LEU	252	35.819	25.820	64.017	1.00 27.78	AAAA
MOTA	2009	CD2	LEU	252	36.631	27.440	62.331	1.00 27.29	AAAA
ATOM	2010	С	LEU	252	32.816	29.049	65.052	1.00 15.49	AAAA
MOTA	2011	0	LEU		31.819	28.320	65.120	1.00 18.82	AAAA <i>A</i> AAA
MOTA	2012	N	LEU	253	32.756	30.360	64.891	1.00 16.80 1.00 17.50	AAAA
MOTA	2013	CA	LEU	253	31.498	31.105	64.817 66.073	1.00 17.30	AAAA
MOTA	2014	CB	LEU	253	31.379	31.987 33.085	66.165	1.00 17.75	AAAA
MOTA	2015	CG	LEU	253	30.326 28.946	32.438	66.172	1.00 20.85	AAAA
MOTA	2016		LEU	253 253	30.536	33.897	67.464	1.00 19.05	AAAA
ATOM	2017	CDZ	LEU	253	31.516	31.985	63.580	1.00 20.22	AAAA
MOTA	2018 2019	0	LEU	253	32.474	32.727	63.371	1.00 18.14	AAAA
MOTA MOTA	2020	И	GLN	254	30.466	31.913	62.765	1.00 16.50	AAAA
ATOM	2021	CA	GLN	254	30.411	32.730	61.556	1.00 16.48	AAAA
ATOM	2022	СВ	GLN	254	30.085	31.863	60.312	1.00 25.58	AAAA
MOTA	2023	CG	GLN	254	28.647	31.798	59.871	1.00 36.40	AAAA
ATOM	2024	CD	GLN	254	28.337	32.728	58.701	1.00 33.18	AAAA
ATOM	2025	OE1	GLN	254	28.744	32.487	57.546	1.00 21.05	AAAA
MOTA	. 2026	NE2	GLN	254	27.613	33.799	58.992	1.00 22.85	AAAA
MOTA	2027	C	GLN	254	29.384	33.816	61.832	1.00 16.12	AAAA AAAA
MOTA	20281	0	GLN	254	28.282	33.577	62.364	1.00 13.97 1.00 14.42	AAAA
ATOM	2029	N	LEU	255	29.768	35.032 36.215	61.468 61.763	1.00 14.42	AAAA
MOTA	2030	CA	LEU	255	28.988	37.070	62.719		AAAA
MOTA	2031	CB	LEU	255	29.834 30.240	36.283	63.964	1.00 22.90	AAAA
ATOM	2032	CG	LEU	255	31.446	36.906	64.635	1.00 29.36	AAAA
ATOM	2033		LEU	255 255	29.042	36.214		1.00 14.80	AAAA
MOTA	2034		LEU LEU	255 255	28.541	37.060	60.594	1.00 19.32	AAAA
ATOM	2035	С	LEU	255	28.838	38.260	60.561	1.00 21.23	AAAA
MOTA MOTA	2036 2037	И О	GLY	256	27.827	36.467	59.639	1.00 17.21	AAAA
ATOM	2037	CA	GLY	256	27.347	37.259	58.516	1.00 15.64	AAAA
ATOM	2039	CA	GLY	256	26.413	38.348	59.028		AAAA
ATOM	2040	Ö	GLY	256	25.717	38.150	60.027	1.00 15.62	AAAA
ATOM	2041	N	THR	257	26.389	39.494	58.348	1.00 19.72	AAAA
ATOM	2042	CA	THR		25.536	40.598			AAAA
ATOM	2043	CB	THR	257	26.242	41.973			AAAA
ATOM	2044	OG1		257	26.538	42.187			AAAA
ATOM	2045	Ç G 2	2 THR		27.543	42.009			AAAA AAAA
ATCM	2046	С	THR	257	24.199	40.634	58.053	1.00 20.58	AAAA

3 mos/	2047	0	THR	257		23.403	41.545	58.266	1.00 14.59	AAAA
MOTA	2047 2048	N	ASP	258		23.927	39.639	57.213	1.00 16.56	AAAA
MOTA MOTA	2049	CA	ASP	258		22.651	39.646	56.525	1.00 16.39	AAAA
ATOM	2050	CB	ASP	258		22.604	38.611	55.388	1.00 18.38	AAAA
ATOM	2051	CG	ASP	258		23.037	37.229	55.811	1.00 25.85	AAAA
ATOM -	2052	OD1		258		23.222	36.995	57.022	1.00 22.32	AAAA
ATOM	2053		ASP	258		23.187	36.370	54.909	1.00 18.12	AAAA
ATOM	2054	C	ASP	258		21.396	39.563	57.397	1.00 21.25	ÀAAA
ATOM	2055	Ō	ASP	258		20.300	39.781	56.897	1.00 22.52	AAAA
ATOM	2056	N	PRO	259		21.510	39.172	58.680	1.00 18.17	AAAA
ATOM	2057	CD	PRO	259		22.614	38.528	59.422	1.00 25.88	AAAA AAAA
ATOM	2058	CA	PRO	259		20.281	39.139	59.482	1.00 21.24 1.00 21.18	AAAA
ATOM	2059	CB	PRO	259	•	20.710	38.363	60.735 - 60.846	1.00 21.18	AAAA
ATOM	2060	CG	PRO	259		22.174	38.707 40.534	59.820	1.00 20.88	AAAA
ATOM	2061	С	PRO	259		19.705 18.572	40.647	60.280	1.00 19.25	-AAAA
MOTA	2062	0	PRO	259 260		20.473	41.591	59.571	1.00 18.75	AAAA
ATOM	2063	N	LEU	260		20.023	42.949	59.875	1.00 22.16	AAAA
MOTA	2064	CA	LEU LEU	260		21.202	43.935	59.778	1.00 20.35	AAAA
MOTA	2065	CB CG	LEU	260		22.403	43.640	60.682	1.00 21.82	AAAA
ATOM	2066 2067		LEU	260		23.604	44.486	60.253	1.00 18.57	AAAA
ATOM	2068		LEU	260		22.032	43.873	62.123	1.00 19.18	AAAA
ATOM ATOM	2069	C	LEU	260		18.876	43.469	59.014	1.00 24.16	AAAA
ATOM	2070	Ö	LEU	260		18.742	43.144	57.826	1.00 21.69	AAAA
ATOM	2071	N	LEU	261		18.049	44.300	59.634	1.00 19.54	AAAA
ATOM	2072	ÇA	LEU	261		16.903	44.913	58.965	1.00 17.34	AAAA
ATOM	2073	CB	LEU	261		16.285	45.967	59.892	1.00 19.96	AAAA AAAA
ATOM	2074	CG	LEU	261		15.204	46.879	59.300	1.00 29.99 1.00 33.66	AAAA
ATOM	2075		LEU	261		14.080	46.040	58.732 60.376	1.00 33.00	AAAA
MOTA	2076		LEU	261		14.682	47.819	57.620	1.00 18.11	AAAA
MOTA	2077	С	LEU	261		17.262	45.550 45.386	56.634	1.00 19.02	AAAA
MOTA	2078	0	LEU	261		18.391	46.249	57.566	1.00 22.68	AAAA
MOTA	2079	N	GLU	262 262 -		18.802	46.921	56.338	1.00 18.46	AAAA
MOTA	2080	CA	GLU GLU	262		19.875	47.965	56.641	1.00 22.01	AAAA
MOTA	2081 2082	CB CG	GLU	262		19.365	49.136	57.443	1.00 22.94	AAAA
MOTA MOTA	2082	CD	GLU	262		19.434	48.902	58.927	1.00 23.11	AAAA
ATOM	2084		GLU	262		19.668	47.748	59.357	1.00 24.58	AAAA
ATOM	2085		GLU	262		19.238	49.883	59.667	1.00 27.06	AAAA AAAA
ATOM	2086	C	GLU	262		19.281	46.034	55.197	1.00 25.65 1.00 25.49	AAAA
ATOM	2087	0	GLU	262		19.446	46.510		1.00 23.49	AAAA
MOTA	2088	N	ASP	263		19.501	44.750 43.851	_	1.00 22.43	AAAA
MOTA	2089	CA	ASP	263		19.959	42.859		1.00 18.99	AAAA
ATOM	2090	CB	ASP	263		20.981 21.706	42.081			AAAA
ATOM	2091	CG	ASP	263		22.876	41.730			AAAA
ATOM	2092		LASP	263 263		21.112	41.809			AAAA
ATOM	2093		2 ASP	263		18.733	43.165		1.00 22.32	AAAA
MOTA	2094	C	ASP ASP	263		18.012			1.00 18.50	AAAA
ATOM	2095 2096	O N	TYR	264		18.500			•	AAAA
MOTA MOTA	2090	CA	TYR	264		17.339				AAAA
ATOM	2098	CB	TYR	264		17.077	43.776			AAAA AAAA
ATOM	2099	CG		264		17.910				AAAA
ATOM	2100		1 TYR	264		17.677				AAAA
ATOM	2101	CE				18.420				AAAA
ATOM	2102	CD	2 TYR	264		18.915				AAAA
ATOM	2103	CE				19.670				AAAA
MOTA	2104					19.415				AAAA
MOTA	2105					20.154 17.445				AAAA
MOTA	2106		TYR			16.448				AAAA
ATOM	2107		TYR			18.639			1.00 24.45	AAAA
ATOM	2108		LEU			18.753			7 1.00 25.36	AAAA
MOTA	2109					20.186		50.969	1.00 29.81	AAAA
ATOM	2110					20.509			1 1.00 34.43	AAAA
ATOM ATOM	2111		1 LEU			21.847		0 49.100	1.00 44.38	AAAA
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ATOM	2113	CD2	LEU	265	19.422	38.990	48.603	1.00 46.72	AAAA
ATOM	2114		LEU	265	18.209	38.585	52.447	1.00 22.33	AAAA
ATOM	2115		LEU	265	18.279	37.364	52.348	1.00 23.48	AAAA
ATOM	2116	N	SER	266	17.677	39.194	53.508	1.00 17.50	AAAA
ATOM	2117	CA	SER	266	17.055	38.398	54.569	1.00 19.69	AAAA
	2118	CB	SER	266	17.912	38.314	55.845	1.00 20.73	AAAA
MOTA		OG	SER	266	17.696	39.442	56.684	1.00 22.81	AAAA
MOTA	2119			266	15.739	39.048	54.950	1.00 19.75	AAAA
ATOM	2120	C	SER		15.572	40.265	54.840	1.00 23.66	AAAA
ATOM	2121	0	SER	266	14.799	38.229	55.402	1.00 18.40	AAAA
MOTA	2122	N	LYS	267	13.527	38.759	55.851	1.00 20.64	AAAA
MOTA	2123	CA	LYS	267	12.397	37.787	55.513	1.00 20.96	AAAA
MOTA	2124	CB	LYS	267		37.536	54.025	1.00 25.60	AAAA
MOTA	2125		LYS	267	12.269	38.823	53.259	1.00 23.00	AAAA
MOTA	2126		LYS	267	12.095		51.772	1.00 38.49	AAAA
MOTA	2127	CE	LYS	267	11.985 11.954	38.540 39.793	50.991	1.00 33.11	AAAA
MOTA	2128		LYS	267		38.987	57.365	1.00 20.63	AAAA
MOTA	2129	C	LYS	267	13.601		58.017	1.00 25.38	AAAA
MOTA	2130	0	LYS	267	12.584	39.192	57.915	1.00 23.38	AAAA
MOTA	2131	N	PHE	268	14.814	38.937		1.00 18.50	AAAA
MOTA	2132	CA	PHE	268	15.034	39.182	59.345	1.00 18.30	AAAA
MOTA	2133	CB	PHE	268	16.328	38.510	59.833		
MOTA	2134	CG	PHE	268	16.252	37.006	59.967	1.00 16.96	AAAA
MOTA	2135	CD1		268	17.374	36.290	60.415	1.00 16.61	AAAA
ATOM	2136	CD2		268	15.081	36.303	59.682	1.00 18.13	AAAA
MOTA	2137	CE1		268	17.331	34.904	60.581	1.00 14.81	AAAA
MOTA	2138	CE2		268	15.027	34.900	59.849	1.00 17.45	AAAA
ATOM	2139	CZ	PHE	268	16.144	34.208	60.296	1.00 16.01	AAAA
MOTA	2140	С	PHE	268	15.179	40.699	59.510	1.00 18.33	AAAA
MOTA	2141	0	PHE	268	15.733	41.371	58.644	1.00 18.28	AAAA
ATOM	2142	N	ASN	269	14.679	41.236	60.613	1.00 21.04	AAAA
ATOM	2143	CA	ASN	269	14.763	42.675	60.859	1.00 22.89	AAAA
ATOM	2144	CB	ASN	269	13.365	43.298	60.940	1.00 20.55	AAAA
MOTA	2145	CG	ASN	269	12.551	43.071.		1.00 26.13	AAAA
MOTA	2146	OD1		269	13.060	43.192	58.571	1.00 29.17	AAAA AAAA
MOTA	2147	ND2		26 9	11.268	42.767	59.860	1.00 28.26	
MOTA	2148	С	ASN	269	15.493	42.967	62.159	1.00 19.00	AAAA AAAA
MOTA	2149	0	ASN	269	14.984	43.683	63.019	1.00.21.85	AAAA
MOTA	2150	N	LEU	270	16.695	42.435	62.298	1.00.17.71	AAAA
ATOM	2151	CA	LEU	270	17.441	42.642	63.521	1.00 18.57 1.00 18.95	AAAA
MOTA	2152	CB	ΓΕŲ	270	18.441	41.507	63.712	1.00 18.95	AAAA
MOTA	2153	CG	LEU	270	17.945	40.058	63.631	1.00 20.34	AAAA
MOTA	2154		LEU	270	19.070	39.174	64.152 64.465	1.00 14.19	AAAA
MOTA	2155		LEU	270	16.679	39.853	63.583	1.00 19.03	AAAA
ATOM	2156	С	LEU	270	18.203	43.971		1.00 22.83	AAAA
MOTA	2157	0	LEU	270	18.409	44.643	62.560 64.799	1.00 18.25	AAAA
ATOM	2158	N	SER	271	18.621	44.318		1.00 20.33	AAAA
ATOM	2159	CA	SER	271	19.414	45.518	66.409	1.00 18.28	AAAA
MOTA	2160	CB	SER	271	18.985	46.150		1.00 18.73	AAAA
MOTA	2161	OG	SER	271	19.347	45.327	67.512 65.224	1.00 22.28	AAAA
MOTA	2162	С	SER	271	20.875	45.073		1.00 19.98	AAAA
MOTA	2163	0	SER	271	21.122	43.899	65.537 65.020	1.00 16.82	AAAA
MOTA	2164	N	ASN	272	21.828	45.994			AAAA
MOTA	2165	CA	ASN	272	23.270	45.695	65.145	1.00 20.70 1.00 37.49	AAAA
ATOM	2166	CB	ASN	272	24.176	46.903	64.884	1.00 54.53	AAAA
ATOM	2167	CG	ASN	272	24.161	47.378	63.483		AAAA
MOTA	2168		ASN	272	24.702	48.454	63.199	1.00 45.61 1.00 60.55	AAAA
ATOM	2169		ASN	272	23.576	46.594	62.579		AAAA
ATOM	2170	С	ASN	272	23.586	45.343	66.580	1.00 18.03	AAAA
ATOM	2171	0	ASN	272	24.545	44.625	66.854	1.00 18.58	AAAA
ATOM	2172	N	VAL	273	22.831	45.938	67.500	1.00 19.57	
MOTA	2173	CA	VAL	273	23.053	45.698	68.919	1.00 22.12	AAAA
ATOM	2174	CB	VAL	273	22.345	46.765	69.765	1.00 26.91	AAAA
ATOM	2175	CG1	VAL	273	22.440	46.421	71.233	1.00 39.69	AAAA
ATOM	2176	CG2	VAL	273	23.034	48.115	69.531	1.00 34.73	AAAA
ATOM	2177	С	VAL	273	22.636	44.295	69.341	1.00 22.06	AAAA
ATOM	2178	0	VAL	273	23.249	43.708	70.217	1.00 16.89	AAAA

	- 4 - 5 - 6			274	21.601	43.747	68.713	1.00 21.79	AAAA
MOTA	2179	И	ALA	274	21.207	42.383	69.035	1.00 21.31	AAAA
MOTA	2180	CA	ALA	274	19.806	42.092	68.475	1.00 18.95	AAAA
MOTA	2181	CB	λLA	274	22.259	41.451	68.400	1.00 17.83	AAAA
MOTA	2182	C	ALA	274	22.569	40.389	68.947	1.00 20.38	AAAA
MOTA	2183	0	ALA	274			67.245	1.00 16.01	AAAA
MOTA	2184	N	PHE	275	22.798	41.859	66.536	1.00 16.46	AAAA
MOTA	2185	CA	PHE	275	23.828	41.089		1.00 16.46	AAAA
ATOM	2186	CB	PHE	275	24.220	41.835	65.253		AAAA
ATOM	2187	CG	PHE	275	25.363	41.222	64.492	1.00 23.01	AAAA
ATOM	2188	CD1	PHE	275	25.209	40.035	63.788	1.00 23.88	AAAA
ATOM	2189	CD2	PHE	275	26.590	41.877	64.443	1.00 22.40	
MOTA	2190	CE1	PHE	275	26.266	39.510	63.038	1.00 28.74	AAAA
MOTA	2191	CE2	PHE	275	27.654	41.365	63.700	1.00 35.03	AAAA
ATOM	2192	CZ	PHE	275	27.489	40.181	62.996	1.00 24.63	AAAA
ATOM	2193	C .	PHE	275	25.030	40.964	67.469	1.00 25.06	AAAA
ATOM	2194	0	PHE	275	25.619	39.888	67.632	1.00 19.71	AAAA
ATOM	2195	N	LEU	276	25.366	42.080	68.101	1.00 17.49	AAAA
ATOM	2196	CA	LEU	276	26.482	42.139	69.030	1.00 24.23	AAAA
MOTA	2197	СВ	LEU	276	26.736	43.606	69.416	1.00 20.44	AAAA
ATOM	2198	CG	LEU	276	28.001	43.967	70.211	1.00 39.65	AAAA
ATOM	2199		LEU	276	27.948	45.447	70.589	1.00 29.65	AAAA
ATOM	2200		LEU	276	28.102	43.143	71.460	1.00 32.41	AAAA
MOTA	2201	C	LEU	276	26.180	41.278	70.262	1.00 18.88	AAAA
MOTA	2202	Ö	LEU	276	27.045	40.529	70.727	1.00 17.99	AAAA
	2203	N	LYS	277	24.968	41.374	70.805	1.00 19.67	AAAA
ATOM	2204	CA	LYS	277	24.644	40.552	71.964	1.00 21.33	AAAA
ATOM	2205	CB.	LYS	277	23.265	40.888	72.532	1.00 23.84	AAAA
MOTA	2206	CG	LYS	277	23.247	42.126	73.366	1.00 40.87	AAAA
MOTA	2207	CD	LYS	277	22.069	42.086	74.325	1.00 54.73	AAAA
MOTA	2208	CE	LYS	277	22.172	40.884	75.254	1.00 58.85	AAAA
MOTA	2200	NZ	LYS	277	21.051	40.844	76.228	1.00 55.34	AAAA
MOTA	2210	C	LYS	277	24.695	39.068	71.660	1.00 22.12	AAAA
MOTA	2211	Ö	LYS	277	25.074	38.264	72.513	1.00 22.19	AAAA
MOTA MOTA	2212	N	ALA	278	24.311	38.700	70.441	1.00 20.23	AAAA
ATOM	2213	CA	ALA	278	24.325	37.291	70.039	1.00 17.06	AAAA
ATOM	2214	CB	ALA	278	23.798	37.154	68.589	1.00 19.27	AAAA
	2215	c	ALA	278	25.760	36.767	70.127	1.00 16.94	AAAA
MOTA MOTA	2216	Ö	ALA	278	26.035	35.676	70.648	1.00 14.93	AAAA
	2217	N	PHE	279	26.679	37.564	69.606	1.00 18.88	AAAA
ATOM ATOM	2218	CA	PHE	279	28.099	37.231	69.626	1.00 21.01	AAAA
MOTA	2219	CB	PHE	279	28.880	38.392	68.998	1.00 16.79	AAAA
ATOM	2220	CG	PHE	279	30.370	38.264	69.120	1.00 20.23	AAAA
ATOM	2221		PHE	279	31.062	37.272	68.423	1.00 21.61	AAAA
ATOM	2222		PHE	279	31.088	39.159	69.905	1.00 23.24	AAAA
ATOM	2223		PHE	279	32.461	37.185	68.509	1.00 30.98	AAAA
	2224		PHE	279	32.480	39.081	69.995	1.00 24.82	AAAA
MOTA MOTA	2225	CZ	PHE	279	33.169	38.095	69.295	1.00 30.27	AAAA
ATOM	2226	c	PHE	279	28.576	36.995	71.067	1.00 25.48	AAAA
MOTA	2227	ō	PHE	279	29.275	36.016	71.362	1.00 16.30	AAAA
	2228	N	ASN	280	28.194	37.898	71.962	1.00 22.30	AAAA
ATOM	2229	CA	ASN	280	28.599	37.777	73.352		AAAA
MOTA MOTA	2230	CB	ASN	280	28.391	39.109	74.080	1.00 27.17	AAAA
	2231	CG	ASN	280	29.344	40.183	73.578	1.00 20.88	AAAA
ATOM	2232		1 ASN	. 280	30.503	39.897	73.273	1.00 22.95	AAAA
MOTA	2233		2 ASN	280	28.875	41.421	73.522	1.00 27.85	AAAA
MOTA	4	C C	ASN		27.928	36.636	74.095		AAAA
ATOM	2234 2235	0	ASN		28.510			1.00 21.91	AAAA
MOTA			ILE		26.711			1.00 18.74	AAAA
MOTA	2236	N			26.005			1.00 18.37	AAAA
MOTA	2237	CA			24.566				AAAA
ATOM	2238	CB	ILE 2 ILE		23.977				AAAA
MOTA	2239	-	2 ILE 1 ILE		23.710			1.00 23.51	AAAA
MOTA	2240				22.279			1.00 26.47	AAAA
MOTA	2241		1 ILE		26.743				AAAA
ATCM	2242		ILE		26.830		_		AAAA
MOTA	2243				27.258				AAAA
MOTA	2244	N	VAL	. 404	_,		•	•	•

ATOM	2245	CA	VAL	282	27.976	32.553	72.352	1.00 14.89	AAAA
				282	28.359	32.565	70.852	1.00 18.50	AAAA
MOTA	2246	CB	VAL						
ATOM	2247	CGl	VAL	282	29.342	31.440	70.567	1.00 20.73	AAAA
MOTA	2248	CG2	VAL	282	27.105	32.363	69.994	1.00 17.49	AAAA
	2249		VAL	282	29.241	32.433	73.198	1.00 21.79	AAAA
MOTA							73.715	1.00 25.80	AAAA
MOTA	2250	0	VAL	282	29.568	31.360			
ATOM	2251	N	ARG	283	29.935	33.549	73.361	1.00 19.14	AAAA
ATOM	2252-	CA	ARG	283	31.161	33.548	74.150	1.00 23.51	AAAA
					31.851	34.898	74.023	1.00 20.64	AAAA
MOTA	2253	CB	ARG	283					
ATOM	2254	CG	ARG	283	32.338	35.200	72.607	1.00 19.65	AAAA
ATOM	2255	CD	ARG	283	32.754	36.645	72.474	1.00 25.70	AAAA
				283	33.970	36.944	73.215	1.00 36.05	AAAA
MOTA	2256	NE	ARG				73.681	1.00 34.61	AAAA
ATOM	2257	CZ	ARG	283	34.277	38.147			
MOTA	2258	NH1	ARG	283	33.448	39.169	73.488	1.00 35.23	AAAA
	2259	NH2		283	35.419	38.332	74.326	1.00 29.30	AAAA
MOTA					30.911	33.219	75.622	1.00 25.44	AAAA
MOTA	2260	С	ARG	283					
ATOM	2261	0	ARG	283	31.754	32.600	76.272	1.00 23.12	AAAA
ATOM	2262	N	GLU	284	29.765	33.632	76.151	1.00 26.79	AAAA.
	2263	CA	GLU	284	29.462	33.338	77.553	1.00 31.77	AAAA
ATOM							78.033	1.00 30.96	AAAA.
ATOM	2264	CB	GLU	284	28.243	34.115			
ATOM	2265	CG	GLU	284	28.399	35.605	77.957	1.00 50.56	AAAA
	2266	CD	GLU	284	27.137	36.320	78.365	1.00 63.75	AAAA
MOTA					26.085	36.067	77.738	1.00 68.93	AAAA
MOTA	2267	OE1		284					
MOTA	2268	OE2	GLU	284	27.198	37.133	79.309	1.00 72.01	AAAA
MOTA	2269	С	GLU	284	29.181	31.862	77.733	1.00 31.57	AAAA
MOTA	2270	ō	GLU	284	29.410	31.310	78.803	1.00 33.08	AAAA
					28.673	31.221	76.686	1.00 23.37	AAAA
ATOM	2271	N	VAL	285					
MOTA	2272	CA	VAL	285	28.354		76.774	1.00 23.25	AAAA
MOTA	2273	CB	VAL	285	27.221	29.407	75.789	1.00 24.77	AAAA
	2274	CG1		285	26.952	27.913	75.881	1.00 26.98	AAAA
MOTA					25.940	30.181	76.107	1.00 24.98	AAAA
MOTA	2275	CG2		285					AAAA
ATOM	2276	C .	VAL	285	29.567	28.942	76.479	1.00 31.41	
ATOM	2277	0	VAL	285	29.833	27.983	77.195	1.00 25.34	AAAA
MOTA	2278	N	PHE	286	30.316	29.276	. 75.431	1.00 27.27	AAAA
				286	31.463	28.457	75.086	1.00 22.47	AAAA
ATOM	2279	CA	PHE					1.00 22.26	AAAA
MOTA	2280	CB	PHE	286	31.289	27.904	73.667		
MOTA	2281	CG	PHE	286	30.168	26.918	73.536	1.00 25.71	AAAA
ATOM	2282	CD1	PHE	286	28.971	27.274	72.917	1.00 22.88	AAAA
			PHE	286	30.294	25.631	74.069	1.00 24.49	AAAA
MOTA	2283					26.365	72.829	1.00 19.85	AAAA
MOTA	. 2284		PHE	286	27.919				
ATOM	2285	CE2	PHE	286	29.246	24.714	73.987	1.00 27.48	AAAA
ATOM	2286	cz	PHE	286	28.056	25.081	73.367	1.00 24.59	AAAA
	2287	Ċ	PHE	286	32.854	29.059	75.225	1.00 21.53	AAAA
ATOM						28.417	74.873	1.00 27.12	AAAA
ATOM	2288	0	PHE	286	33.849				
MOTA	2289	N	GLY	2 87	32.937	30.272	75.754	1.00 23.76	AAAA
ATOM	2290	CA	GLY	287	34.237	30.896	75 901	1.00 24.17	AAAA
	2291	C	GLY	287	34.705	31.419	74.562	1.00 27.05	AAAA
ATOM							.73.667	1.00 18.06	AAAA
MOTA	2292	0	GLY	287	33.888				
ATOM	2293	N	GLU	288	36.017	31.576	74.414	1.00 23.21	AAAA
ATOM	2294	CA	GLU	288	36.583	32.085	73.170	1.00 24.87	AAAA
		CB	GLU	288	37.968	32.682	73.410	1.00 29.25	AAAA
ATOM	2295						74.291	1.00 42.63	AAAA
MOTA	2296	CG	GLU	288	37.984	33.933			
ATOM	2297	CD	GLU	288	37.114	35.052	73.745	1.00 43.77	AAAA
ATOM	2298	OF1	GLU	288	37.235	35.380	72.544	1.00 36.82	AAAA
					36.317	35.617	74.521	1.00 51.56	AAAA
MOTA	2299		GLU	288			72.072	1.00 20.85	AAAA
ATOM	2300	С	GLU	288	36.693	31.028			
ATOM	2301	0	GLU	288	36.995	29.856	72.332	1.00 18.10	AAAA
	2302	N	GLY	289	36.447	31.468	70.843	1.00 26.12	AAAA
MOTA						30.588	69.692	1.00 20.71	AAAA
MOTA	2303	CA	GLY	289	36.517			1.00 20.71	AAAA
MOTA	2304	С	GLY	289	37.126	31.318	68.510		
MOTA	2305	0	GLY	289	37.669	32.404	68.679	1.00 16.59	AAAA
	2306	N	VAL	290	37.032	30.724	67.322	1.00 19.86	AAAA
ATOM					37.572	31.312	66.103	1.00 19.70	AAAA
MOTA	23 07	CA	VAL	290			_		AAAA
MOTA	2308	CB	VAL		38.150	30.192		1.00 19.04	
ATOM	2309	CG1	VAL	290	38.667	30.769		1.00 15.54	AAAA
	2310		VAL		39.296	29.483		1.00 20.40	AAA A
MOTA	2310	CG2	7.14				•		•

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MOTA	2311		VAL			.351	31.439	65.193	1.00 19.33	AAAA
MOTA	2312		VAL	290		5.598	33.325	65.125	1.00 15.37	AAAA
ATOM	2313	N	TYR	291					1.00 16.79	AAAA
MOTA	2314	CA	TYR	291	-	5.543	34.140	64.524		AAAA
MOTA	2315	CB	TYR	291	35	.412	35.438	65.317	1.00 16.42	
			TYR	291	35	3.375	35.181	66.808	1.00 18.60	AAAA.
MOTA	2316			291		.366	35.688	67.659	1.00 21.77	AAAA
MOTA	2317	CD1			3.0	3.368	35.385	69.030	1.00 22.55	AAAA
MOTA	2318	CEl	TYR	291					1.00 17.34	AAAA
MOTA	2319	CD2	TYR	. 291		1.388	34.374	67.361		AAAA
ATOM	2320	CE2	TYR	291	34	1.381	34.066	68.718	1.00 20.24	
	2321	CZ	TYR	291 -	3 :	5.367	34.568	69.545	1.00 25.85	AAAA
MOTA			TYR	291		5.338	34.246	70.885	1.00 25.57	AAAA
ATOM	2322	ОН				5.720	34.446	63.031	1.00 14.97	AAAA
MOTA	2323	С	TYR	291	_	6.773	34.921	62.586	1.00 15.21	AAAA
ATOM	2324	0	TYR	291				62.273	1.00 14.06	AAAA
MOTA	2325	N	LEU	292		4.660	34.189		1.00 15.03	AAAA
ATOM	2326	CA	LEU	292	3.	4.674	34.392	60.824		
	2327	CB	LEU	292	3.	4.461	33.046	60.108	1.00 13.66	AAAA
ATOM			LEU	292	3	5.342	31.856	60.496	1.00 19:04	'AAAA'
MOTA	2328	CG				4.909	30.615	59.665	1.00 15.17	AAAA
MOTA	2329		LEU	292		6.792	32.190	60.252	1.00 19.18	AAAA
ATOM	2330	CD2	LEU	292				60.396	1.00 16.62	AAAA
MOTA	2331	C	LEU	292		3.564	35.327		1.00 14.76	AAAA
ATOM	2332	0	LEU	292	3	2.575	35.488	61.107		AAAA
	2333	N	GLY	293	3	3.724	35.932	.59.216	1.00 18.62	
MOTA			GLY	293	3	2.696	36.816	58.699	1.00 17.10	AAAA
MOTA	2334	CA		293		1.611	35.954	58.068	1.00 23.44	AAAA
MOTA	2335	C	GLY		د.	1.407	34.798	58.459	1.00 23.60	AAAA
MOTA	2336	C	GLY	293				57.085	1.00 24.96	AAAA
ATOM	2337	N	GLY	294		0.915	36.501		1.00 27.07	AAAA
MOTA	2338	CA	GLY	294		9.871	35.738	56.434		AAAA
ATOM	2339	С	GLY	294	2	9.132	36.632	55.474	1.00 28.41	
	2340	Ö	GLY	294	2	9.605	37.722	55.167	1.00 25.66	AAAA
MOTA			GLY	295		7.972	36.168	55.011	1.00 20.33	AAAA
MOTA	2341	N				7.164	36.936	54.085	1.00 20.14	AAAA
MOTA	2342	CA	GLY	295		6.742	38.244	54.730	1.00 25.34	AAAA
MOTA	2343	C	GLY	295	_			55.942	1.00 28.89	AAAA
MOTA	2344	.0	GLY	295		6.550	38.317		1.00 28.52	AAAA
ATOM	2345	N	GLY	296	2	6.614	39.274	53.909		AAAA
MOTA	2346	CA	GLY	296		26.230	40.598	54.367	1.00 23.21	AAAA
	2347	c	GLY	296	2	26.314	41.342	53.059	1.00 26.34	
MOTA				296		27.359	41.324	52.414	1.00 26.05	AAAA
MOTA	2348	0	GLY			25.235	42.008	52.662	1.00 22.61	AAAA
ATOM	2349	N	TYR	297		25.228	42.644	51.360	1.00 22.58	AAAA
MOTA	2350	CA	TYR	297			41.861	50.457	1.00 23.68	AAAA
ATOM	2351	CB	TYR	297		24.265			1.00 25.14	AAAA
ATOM	3352	CG	TYR	297		24.502	40.352	50.521	1.00 28.31	AAAA
ATOM	2353	CDI	TYR	297		23.981	39.571	51.568		AAAA
	2354		TYR	297		24.269	38.196		1.00 24.18	
ATOM			TYR	297		25.307	39.725	49.577	1.00 29.74	AAAA
atom	2355					25.598		49.664	1.00 27.09	AAAA
MOTA	2. 56		TYR	297		25.085			1.00 28.68	AAAA
ATOM	257	CZ	TYR	297						АААА
MOTA	8ذز2	ОН	TYR	297		25.407				AAAA
ATOM	2359	С	TYR	297		24.916				AAAA
ATOM	2360	0	TYR	2 97		24.841				AAAA
	2361	N	HIS	298		24.740	44.752			
ATOM			HIS	298		24.480	46.188	52.591	1.00 23.44	AAAA
Mota	2362	CY				23.325			1.00 23.37	AAAA
MOTA	2363	CB	HIS	298.		22.956				AAAA
MOTA	2364	CG		298						AAAA
MOTA	2365	CD:	2 HIS	298		23.491				AAAA
ATOM	2366	ND	1 HIS	298		22.011	48.487	52.707		AAAA
ATOM	2367		1 HIS	298		21.978				AAAA
	2368		2 HIS	298		22.867				
ATOM						25.757		5 53.184	1.00 23.11	AAAA
MOTA	2369		HIS	298		26.135				AAAA
MOTA	2370		HIS	298						AAAA
ATOM	2371	N	PRO	299		26.430				AAAA
ATOM			PRO	299		26.078				AAAA
ATOM				299		27.67				AAAA
						28.043	1 49.22			
ATOM						26.67			5 1.00 35.16	AAAA
ATOM						27.64				AAAA
ነ ጥር Μ	2376	5 C	PRO	299		27.04	0.00			_

MOTA	2377	0	PRO	299	28.565	48.845	55.068	1.00 24.36	AAAA
					26.602	49.769	54.504	1.00 24.48	AAAA
ATOM	2378		TYR	300					
ATOM	2379	CA	TYR	300	26.495	50.478	55.766	1.00 22.94	AAAA
ATOM	2380	CB	TYR	300	25.317	51.442	55.734	1.00 25.24	AAAA
					25.411	52.599	54.762	1.00 30.44	AAAA
ATOM	2381		TYR	300					
ATOM	2382	CD1	TYR	300	26.366	52.634	53.746	1.00 26.01	AAAA
	2383		TYR	300	26.389	53.676	52.819	1.00 29.66	AAAA
MOTA								1.00 31.37	AAAA
ATOM	2384	CD2	TYR	300	24.490	53.640	54.827		
ATOM	2385	CE2	TYR	300	24.501	54.677	53.916	1.00 35.88	AAAA
-					25.448	54.689	52.913	1.00 38.44	AAAA
MOTA	2386	CZ .	TYR	300					
MOTA	2387	OH	TYR	300	25.417	55.700	51.990	1.00 33.41	AAAA
	2388	·c	TYR		26.280	49.515	56.921	1.00 22.80	AAAA
ATOM							57.983	1.00 19.14	AAAA
ATOM	2389	0	TYR	300 .	26.895	49.643			
ATOM	2390	N	ALA	301	25.374	48.568	56.705	1.00 23.08	AAAA
			ALA	301	25.009	47.589	57.719	1.00 21.68	AAAA
ATOM	2391	CA							- AAAA
ATOM	2392	CB	ALA	301	23.893	46.687	57.198	1.00 19.52	
	2393	С	ALA	301	26.216	46.762	58.098	1.00 23.49	AAAA
ATOM					26.507	46.570	59.274	1.00 21.21	AAAA
ATOM	2394	0	ALA	301					
ATOM	2395	N	LEU	302	26.904	46.275	57.072	1.00 23.19	AAAA
	2396	CA	LEU	302	28.090	45.463	57.234	1.00 20.66	AAAA
ATOM						45.057	55.844	1.00 23.31	AAAA.
MOTA	2397	CB	LEU	302	28.602				
ATOM	2398	CG	LEU	· 302	29.932	44.335	55.611	1.00 36.66	AAAA
		CD1		302	29.979	43.849	54.170	1.00 38.41	AAAA
MOTA	2399								
ATOM	2400	CD2	LEU	302	31.104	45.255	55.879	1.00 28.52	AAAA
ATOM	2401	С	LEU	302	29.165	46.204	58.012	1.00 22.08	AAAA
				302	29.653	45.713	59.020	1.00 20.43	AAAA
MOTA	2402	0	LEU						
MOTA	2403	N	ALA	303	29.517	47.401	57.549	1.00 19.58	AAAA
ATOM	2404	CA	ALA	303	30.567	48.173	58.197	1.00 19.77	AAAA
					30.816	49.460	57.432	1.00 21.69	AAAA
ATOM	2405	CB	ALA	303					
ATOM	2406	C	ALA	303	30.324	48.485	59.657	1.00 19.19	AAAA
ATOM	2407	0	ALA	303 É	31.216	48.310	60.489	1.00 22.51	AAAA
					29.128	48.954	59.993	1.00 20.12	AAAA
MOTA	2408	N	ARG	304					
MOTA	2409	CA	ARG	304	28.872	49,296	61.377	1.00 18.04	AAAA
ATOM	2410	CB	ARG	304 -	27.566	50.114	61.511	1.00 21.09	AAAA
					27.532	51.481	60.792	1.00 24.34	AAAA
ATOM	2411	CG	ARG	304					
ATOM	2412	CD	ARG	304	26.259	52.259	61.206	1.00 27.09	AAAA
ATOM	2413	NE	ARG	304	25.090	51.398	61.116	1.00 45.73	AAAA
					23.965	51.549	61.808	1.00 39.82	AAAA
ATOM	2414	CZ	ARG	304					
ATOM	2415	NH1	ARG	304	23.813	52.550	62.677	1.00 28.40	AAAA
	2416	MHO	ARG	304	22.991	50.667	61.647	1.00 41.77	AAAA
MOTA						48.073	62.280	1.00 21.00	AAAA
MOTA	2417	С	ARG	304	28.794				
MOTA	2418	0	ARG	304	29.313	48.087	63.397	1.00 19.45	AAAA
ATOM	2419	N	ALA	305	28.159	47.008	61.796	1.00 19.93	AAAA
						45.809	62.610	1.00 18.70	AAAA
ATOM	2420	CA	ALA	305	28.002				
ATOM	2421	CB	ALA	305	26.998	44.830	61.933	1.00 18.26	AAAA
ATOM	2422	C	ALA	305	29.311	45.109	62.915	1.00 16.46	AAAA
						44.736	64.061	1.00 9.49	AAAA
MOTA	2423	0	ALA	305			61.001	1 00 31 00	AAAA
MOTA	2424	N	TRP	30 6	30.152	44.909	61.905	1.00 1.92	
	2425	CA	TRP	306	31.423	44.268	62.183	1.00 18.99	AAAA
MOTA	_					43.865	60.902	1.00 17.96	AAAA
ATOM	2426	CB	TRP	306	32.151				AAAA
ATOM	2427	CG	TRP	306	31.632	42.564	60.333	1.00 21.34	
	2428		TRP	306	31.852	42.058	59.014	1.00 16.55	AAAA
ATOM						40.785	58.949	1.00 19.37	AAAA
MOTA	2429		TRP	306	31.243				
MOTA	2430	CE3	TRP	306	32.507	42.556	57.878	1.00 17.80	AAAA
			TRP	306	30.919	41.610	60.995	1.00 19.88	AAAA
MOTA	2431					40.535	60.170	1.00 15.95	AAAA
MOTA	3432		TRP	306	30.680				
ATOM	2433	CZ2	TRP	306	31.270	40.002	57.787	1.00 24.85	AAAA
			TRP	306	32.534	41.781	56.725	1.00 29.69	AAAA
MOTA	2434							1.00 17.04	AAAA
MOTA	2435	CH2	TRP	306	31.917	40.513	56.691		
MOTA	2436	С	TRP	306	32.289	45.168	63.018	1.00 20.26	AAAA
				306	33.159	44.726		1.00 21.20	AAAA
MOTA	1437	0	TRP						AAAA
ATOM	2438	N	THR	307	.32.061	46.491		1.00 18.60	
ATOM	2439	CA	THR	307	32.843	47.412	63.722	1.00 16.88	AAAA
					32.579			1.00 22.05	AAAA
ATOM	2440	CB	THR	307					AAAA
ATOM	2441	OG1	THR	3 07	33.218			1.00 21.58	
ATOM	2442	CG2	THR	307	33.126	49.857	64.356	1.00 24.86	AAAA
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					_				
		_	muD.	307	32.493	47.146		1.00 17.47	AAAA
ATOM	2443	_	THR	307	33.377			1.00 18.94	AAAA
ATOM	2444		THR LEU	308	31.216	46.901		1.00 19.97	AAAA
MOTA	2445		LEU	308	30.834	46.587		1.00 22.54	AAAA
MOTA	2446		LEU	308	29.318	46.365		1.00 21.13	AAAA
ATOM	2447		LEU	308	28.415	47.579	66.751	1.00 22.82	AAAA
MOTA	2448	CD1		308	26.937	47.219	67.023	1.00 25.01	AAAA
MOTA	2449 2450	CD2		308	28.870	48.710		1.00 29.09	AAAA
MOTA	2450		LEU	308	31.578	45.331	67,336	1.00 22.98	AAAA
ATOM ATOM	2452	0	LEU	308	32.056	45.250	68.479	1.00 22.27	AAAA AAAA
ATOM	2453	N	ILE	309	31.677	44.342	66.454	1.00 22.54	AAAA
MOTA	2454	CA	ILE	309	32.377	43.114	66.801	1.00 17.09 1.00 18.12	AAAA
ATOM	2455	CB	ILE	309	32.318	42.073	65.664	1.00 24.16	AAAA
MOTA	2456		ILE	309	33.170	40.870	66.033	1.00 24.10	AAAA
ATOM	2457		ILE	309	30.871	41.655	65.399 66.586	1.00 26.57	AAAA
ATOM	2458	CD1	ILE	309	30.205	40.989	67.067	1.00 20.84	AAAA
ATOM	2459	С	ILE	309	33.849	43.410	68.031	1.00 25:20	AAAA
ATOM	2460	0	ILE	309	34.426	42.905 44.223	66.214	1.00 16.86	AAAA
MOTA	2461	N	TRP	310	34.466	44.223	66.411	1.00 17.86	AAAA
MOTA	2462	CA	TRP	310	35.888	44.317	65.235	1.00 14.83	AAAA
MOTA	2463	CB	TRP	310	36.439 37.879	45.648	65.397	1.00 16.63	AAAA
MOTA	2464	CG	TRP	310	38.967	44.718	65.560	1.00 18.62	AAAA
MOTA	2465	CD2		310	40.131	45.478	65.799	1.00 25.60	AAAA
ATOM	2466	CE2		310	39.069	43.319	65.529	1.00 24.06	AAAA
MOTA	2467	CE3		310	38.418	46.895	65.533	1.00 19.82	AAAA
MOTA	2468		TRP	310	39.768	46.801	65.777	1.00 25.84	AAAA
MOTA	2469		TRP	310 310	41.383	44.887	66.006	1.00 26.14	AAAA
MOTA	2470		TRP TRP	310	40.308	42.730	65.735	1.00 24.89	AAAA
MOTA	2471	CZ3	TRP	310	41.452	43.515	65.971	1.00 24.96	AAAA
MOTA	2472 2473	Cnz	TRP	310	36.112	45.263	67.733	1.00 20.86	AAAA
MOTA	2474	Ö	TRP	310	37.050	44.957	68.478	1.00 21.38	AAAA AAAA
ATOM ATOM	2475	Ŋ	CYS	311	35.242		68.030	1.00 24.22	AAAA
ATOM	2476	CA	CYS	311	35.349		69.280	1.00 27.66 1.00 25.37	AAAA
ATOM	2477	CB	CYS	311	34.297		69.343	1.00 23.37	AAAA
ATOM	2478	SG	CYS	311	34.618		68.253	1.00 27.22	AAAA
ATOM	2479	С	CYS	311	35.224		70.490 71.441	1.00 25.47	AAAA
ATOM	2480	0	CYS	311	35.986		70.457	1.00 17.03	AAAA
ATOM	2481	N	GLU	312	34.284			1.00 22.44	AAAA
MOTA	2482	СA	GLU	312	34.120 33.011			1.00 20.81	. AAAA
MOTA	2483	CB	GLU	312	31.856			1.00 43.65	AAAA
MOTA	2484	CG	GLU	312	32.265			1.00 29.63	AAAA
MOTA	2485	CD	GLU	312 312	33.022			1.00 38.85	AAAA
ATOM	2486		1 GLU	312	31.804		74.473	1.00 53.22	AAAA
ATOM	2487		2 GLU	312	35.39	43.309	71.778	1.00 27.47	AAAA
ATOM	2488		GLI GLi.	312	35.899		72.895		AAAA
ATOM	2489 2490		LEU	313	35.89				AAAA AAAA
ATOM	2491			313	37.10	1 41.889			AAAA
MOTA	2492			313	37.38				AAAA
MOTA MOTA	2493			313	36.40				AAAA
ATOM	2494		1 LEU	313	36.83				AAAA
ATOM	2495		2 LEU	313	36.37	9 38.981			AAAA
ATOM	2496		LEU	. 313	38.34	3 42.670			AAAA
ATOM	2497		LEU	313	39.11	9 42.205			AAAA
ATOM	2498	N	SER	314	38.49				AAAA
ATOM	2499			314	39.62				AAAA
ATOM) CB		314	39.62				AAAA
MOTA				314	40.73			_	AAAA
MOTA	2502		SER	314	39.61 40.63			1.00 25.04	AAAA
ATOM			SER		38.47			5 1.00 28.04	AAAA
MOTA	2504		GLY		38.39			9 1.00 33.84	AAAA
ATOM					38.32		8 74.10	5 1.00 36.93	AAAA
MOTA			GLY		38.81			2 1.00 37.00	AAAA
MOTA			GLY		37.73				AAAA .
- TCM	250	R N	ARG	9,10	٠		•		•

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MOTA	2509	CA	ARG	316	37.631	49.536	73.042	1.00 39.10	KAAA
ATOM	2510		ARG	316	38.347	50.108	71.830	1.00 45.15	AAAA
	2511	CG	ARG	316	37.722	49.834	70.501	1.00 46.02	AAAA
ATOM				316	38.620	50.459	69.449	1.00 44.83	AAAA
MOTA	2512		ARG		39.898	49.767	69.357	1.00 37.91	AAAA
MOTA	2513	NE	ARG	316			68.674	1.00 27.39	AAAA
MOTA	2514	CZ	ARG	316	40.945	50.219		1.00 27.33	
ATOM	2515	NHl	ARG	316	40.854	51.371	68.034		AAAA
MOTA	2516	NH2	ARG	316	42.054	49.493	68.572	1.00 34.51	AAAA
ATOM	2517	С	ARG	316	36.179	49.984	73.058	1.00 35.43	AAAA
ATOM	2518	Ō	ARG	316	35.292	49.271	72.596	1.00 30.71	AAAA
	2519	N	GLU	317	35.931	51.162	73.612	1.00 34.06	AAAA
MOTA				317	34.569	51.663	73.671	1.00 37.96	AAAA
MOTA	2520	CA	GLU		34.481	52.914	74.552	1.00 43.60	AAAA
MOTA	2521	CB	GLU	317			75.960	1.00 60.36	AAAA
MOTA	2522	CG	GLU	317	33.961	52.630			
ATOM	2523	CD	GLU	317	34.768	51.575	76.701	1.00 70.70	AAAA
ATOM	2524	OEl	GLU	31 7	34.375	51.217	77.832	1.00 76.71	AAAA
ATOM	2525	OE2	GLU	317	35.793	51.104	76.162	1.00 78.36	AAAA
ATOM	2526	C	GLU	317	34.068	51.958	72.280	1.00 35.65	AAAA
ATOM	2527	Ö	GLU	317	34.843	52.322	71.390	1.00 32.91	AAAA
	2528	N	VAL	318	32.767	51.772	72.094	1.00 30.52	AAAA
MOTA		CA	VAL	318	32.138	52.012	70.808	1.00 37.04	AAAA
MOTA	2529				30.877	51.138	70.638	1.00 36.48	AAAA
MOTA	2530	CB	VAL	318		51.366	69.268	1.00 40.43	AAAA
MOTA	2531		VAL	318	30.278			1.00 33.75	AAAA
MOTA	2532	CG2		318	31.222	49.674	70.846		
MOTA	2533	С	VAL	318	31.719	53.465	70.737	1.00 28.96	AAAA
ATOM	2534	0	VAL	318	30.930	53.915	71.556	1.00 33.56	AAAA
MOTA	2535	N	PRO	319	32.258	54.229	69.773	1.00 29.20	AAAA
ATOM	2536	CD	PRO	319	33.243	53.924	68.726	1.00 31.62	AAAA
ATOM	2537	CA	PRO	319	31.858	55.637	69.684	1.00 28.99	AAAA
ATOM	2538	CB	PRO	319	32.709	56.154	68.528	1.00 32.17	AAAA
	2539	CG	PRO	319	32.850	54.926	67.664	1.00 41.36	AAAA
ATOM				319	30.365	55.680	69.377	1.00 36.95	AAAA
MOTA	2540	C	PRO	319	29.847	54.795	68.695	1.00 32.86	AAAA
MOTA	2541	0	PRO		29.646	56.683	69.855	1.00 34.61	AAAA
MOTA	2542	N	GLU	320			69.544	1.00 35.13	AAAA
MOTA	2543	CA	GLU	320	28.230	56.657		1.00 52.97	AAAA
MOTA	2544	CB	GLU	320	27.419	57.416	70.595		AAAA
MOTA	2545	CG	GLU	320	27.751	58.875	70.738	1.00 56.06	AAAA
ATOM	2546	CD	GLU	320	26.822	59.558	71.721	1.00 65.58	
ATOM	2547	OE1	GLU	320	25.604	59.619	71.444	1.00 64.27	AAAA
ATOM	2548	OE2	GLU	320	27.306	60.022	72.775	1.00 72.99	AAAA
ATOM	2549	С	GLU	320	27.943	57.192	68.153	1.00 35.13	AAAA
ATOM	2550	ŏ	GLU	320	26.916	56.879	67.565	1.00 37.43	AAAA
ATOM	2551	N	LYS	321	28.880	57.953	67.604	1.00 28.22	AAAA
	2552	CA	LYS	321	28.700	58.555	66.289	1.00 36.58	AAAA
ATOM				321	28.666	60.071	66.454	1.00 44.87	AAAA
ATOM	2553	CB	LYS		29.987	60.606	67.023	1.00 55.73	AAA.
MOTA	2554	CG	LYS	321	30.305	60.020	68.410	1.00 57.27	AAA
MOTA	2555	CD	LYS	321		60.310	68.840	1.00 54.59	AAA
MOTA	2556	CE	LYS	321	31.733			1.00 67.47	AAAA
MOTA	2557	NZ	LYS	321	32.024	61.774	68.848		AAAA
MOTA	2558	С	LYS	321	29.823	58.211	65.315	1.00 34.44	AAAA
MOTA	2559	0	LYS	321	30.912	57.818	65.731	1.00 33.83	
ATOM	2560	N	LEU	322	29.549	58.354	64.019	1.00 30.21	4AAA
MOTA	2561	CA	LEU	322	30.575	58.135		1.00 29.45	AAA
ATOM	2562	CB	LEU	322	29.966	57.677	61.677	1.00 32.21	LAAA
	2563	CG	LEU	322	29.240	56.338		1.00 38.94	SAAA
ATOM			LEU	322	29.008	55.977		1.00 38.44	LAAA
ATOM	2564				30.072	55.261		1.00 42.11	LAAA
ATOM	2565		LEU	322	31.228	59.503		1.00 33.28	LAAA
MOTA	2566	C	LEU	322		60.519		1.00 31.45	LAAA
MOTA	2567	0	LEU	322	30.544			1.00 34.38	AAAi
MOTA	2568	N	ASN	323	32.533	59:539			AAA.
ATOM	2569	CA	ASN	323	33.208	60.824			AAA
ATOM	2570	CB	ASN	323	34.701	60.737			
ATOM	2571	CG	ASN	323	35.484	60.081			AAA.
ATOM	2572		ASN	323	35.215	58.942			AAA
ATOM	2573		ASN	323	36.455				AAA
ATOM	2574	C	ASN		33.027	61.171	60.822	1.00 34.69	AAA
11 011		-	-				-		•

		_		222	32.4	9 6	0.395	60.075	1.00	34.06	AAAA
MOTA	2575 2576		asn Asn	323 324	33.5		2.317	60.390	1.00		AAAA
MOTA	2577		ASN	324	33.3		2.720	58.995	1.00		AAAA
MOTA MOTA	2578		ASN	324	33.8	68 6	4.155	58.784	1.00	36.07	AAAA
ATOM	2579	CG	ASN	324	32.9		5.163	59.450	1.00		AAAA AAAA
ATOM	2580	OD1		324	31.7		5.189	59.206	1.00		AAAA
MOTA	2581	ND2	ASN	324	33.5		6.008	60.291 57.971		24.87	AAAA
MOTA	2582	С	ASN	324	34.0		51.810 51.483	56.941		31.91	AAAA
MOTA	2583	0	ASN	324	33.4 35.2		51.405	58.250		27.73	AAAA
MOTA	2584	N	LYS	325	- 35.9		50.538	57.333	1.00	29.55	AAAA
MOTA	2585	CA	LYS LYS	325 325	37.3		50.182	57.929		37.43	AAAA
MOTA	2586 2587	CB CG	LYS	325	38.2		59.396	57.004	1.00	44.84	AAAA
MOTA	2588	CD	LYS	325	39.6	84	59.435	57.502		50.89	AAAA
MOTA MOTA	2589	CE	LYS	325	40.1		60.873	57.561		54.82	AAAA AAAA
MOTA	2590	NZ	LYS	325	41.6		60.980	57.969		65.70 27.99	AAAA
MOTA	2591	·C	LYS	325	35.1		59.279	57.078 55.938		31.80	AAAA
ATOM	2592	0	LYS	325	35.0		58.836 58.721	58.142		26.07	AAAA
ATOM	2593	N	ALA	326	34.6 33.7		57.506	58.030		24.38	AAAA
MOTA	2594	CA	ALA	326	33.4		56.982	59.428	1.00	27.34	AAAA
MOTA	2595	CB	ALA	326 326	32.4		57.709	57.231	1.00	25.78	AAAA
MOTA	2596	C	ALA ALA	326	32.1		56.890	56.369	1.00	27.37	AAAA
MOTA	2597 2598	O N	LYS	327	31.7		58.790	57.496	1.00	27.31	AAAA
ATOM ATOM	2599	CA	LYS	327	30.5	502	59.027	56.758	1.00	28.56	AAAA AAAA
ATOM	2600	CB	LYS	327	29.	-	60.251	57.313	1.00	28.87	AAAA
ATOM	2601	CG	LYS	327	29.		60.209		1.00	36.72 40.34	AAAA
ATOM	2602	CD	LYS	327	28.		61.407	59.255 60.769	1.00	38.91	AAAA
MOTA	2603	CE	LYS	327	28.		61.594	61.556		47.67	AAAA
MOTA	2604	NZ	LYS	327	28. 30.	103	59.244	55.269		29.15	AAAA
MOTA	2605	Ç	LYS	327 327	30.	192 197	58.719	54.393	1.00	27.76	AAAA
ATOM	2606	0	LYS GLU	327	31.		60.015	54.972	1.00	31.59	AAAA
MOTA	2607 2608	N CA	GLU	328	32.		60.265	53.581	1.00	28.93	AAAA
MOTA MOTA	2609	CB	GLU	328	33.	257	61.332	53.515	1.00	32.30	AAAA AAAA
MOTA	2610	CG	GLU	328	32.		62.652	54.067	1.00	47.50 46.67	AAAA
ATOM	2611	CD	GLU	328	33.		63.772	54.032 52.951	1.00	56.88	AAAA
MOTA	2612	OE:		328	34.		64.037 64.402	55.087	1.00	42.24	AAAA
ATOM	2613		2 GLU	328	33. 32.	984 575	58.975	52.871	1.00	30.46	AAAA
MOTA	.2614	С	GLU	328 328	-	226	58.753	51.704	1.00	26.29	AAAA
MOTA	2615	11 O	GLU LEU	329		292	58.112	53.584	1.00	24.93	AAAA
ATOM	2616 2617	CA	LEU	329		701	56.828	53.017	1.00	24.80	AAAA AAAA
ATOM ATOM	2618	CB	LEU	329		478	56.003	54.053	1.00	0°25.70 0 19.71	AAAA
ATOM	2619	CG	LEU	329		730	54.522	53.703		0 25.25	AAAA
ATOM	2620		1 LEU	329		569	54.413	52.430 54.863	3.0	0 24.73	AAAA
ATOM	2621		2 LEU	329	,5.	412	53.833 56.059			0 23.50	AAAA
ATOM	2622		LEU	329	32.	443 310	55.650		1.0	0 25.60	AAAA
ATOM			LEU	329 330		516	55.881		1.0	0 23.02	AAAA
MOTA	2624		LEU	330		289	55.145		1.0	0 23.85	AAAA
MOTA				330		414	55.030	54.484		0 21.74	<i>AAAA</i> <i>AAA</i> A
MOTA MOTA				330		.039	54.252		1.0	0 25.29	AAAA
ATOM			1 LEU	330		984	54.053			0 30.59	AAAA
ATOM			2 LEU	330		.538	52.905			0 26.94	AAAA
ATCM			LEU	330		.491	55.769 55.060			0 26.65	AAAA
ATOM			LEU	330	28	.968 .404	57.09		1.0	0 30.82	AAAA
ATCM			LYS	331		.667	57.79		5 1.0	0 29.53	AAAA
MOTA			LYS	331 331		.537	59.29	2 51.407	7 1.0	0 29.67	AAAA
ATOM						.814	59.56	7. 52.714		0 36:06	AAAA
ATOM					27	.688	61.05	5 52.99	1.0	0 42.75	AAAA AAAA
ATOM ATOM					26	.828	61.73			00 53.98	AAAA
ATOM						.634	63.18			00 67.57	AAAA
ATOM		_		331		.315	57.62		2 1.1	00 36.20	AAAA
E TON					28	.634	57.75	9 48.67	٠ ١ . ١	00 00.20	•

-					30 600	57.305	49.657	1.00 30.08	AAAA
MOTA	2641	N	SER	332	30.608				
ATOM	2642	CA	SER	332	31.322	57.153	48.385	1.00 33.35	AAAA
		CB	SER	332	32.934	57.312	48.590	1.00 40.36	aaaa
MOTA	2643						49.219	1.00 34.04	አልልአ
ATOM	2644	OG	SER	332	33.396				
ATOM	2645	С	SER	332	31.061	55.821	47.693	1.00 37.72	AAAA
				332	31.354	55.661	46.507	1.00 30.78	AAAA
MOTA	2646	0	SER				48.440	1.00 30.61	AAAA
ATOM	2647	N	ILE	333	30.521				
	2648	CA	ILE	333	30.219	53.547	47.899	1.00 37.59	المممم
MOTA					29.901		49.022	1.00 33.59	AAAA
ATOM	2649	CB		. 333					
ATOM	2650	CG2_	ILE	333	29.738	51.146	48.442	1.00 37.05	AAAA
		CG1		333	31.015	52.564	50.065	1.00 38.95	AAAA
MOTA	2651				_		51.282	1.00 46.83	AAAA
ATOM	2652	CD1	ILE	333	30.706				
ATOM	2653	С	ILE	333	28.990	53.620	46.998	1.00 43.41	AAAA
			ILE	333	27.889	53.876	47.479	1.00 46.24	AAAA
ATOM	2654	0					45.696	1.00 47.97	AAAA
MOTA	2655	N	ASP	334	29.158				
ATOM	2656	CA	ASP	334	27.976	53.447	44.847	1.00 53.47	- AAAA
				334	28.333	53.535	43.358	1.00 61.52	AAAA
MOTA	2657	CB	ASP				42.897	1.00 64.75	AAAA
MOTA	2658	CG	ASP	334	29.223				
ATOM	2659	001	ASP	334	29.379	52.248	41.566	1.00 66.93	AAAA
				334	29.779	51.691	43.758	1.00 65.93	AAAA
MOTA	2660		ASP				45.161	1.00 51.83	AAAA
ATOM	2661	С	ASP	334	27.248				
ATOM	2662	0	ASP	334	27.626	51.067	44.699	1.00 46.80	AAAA
			PHE	335	26.215	5 52.249	45.986	1.00 54.96	AAAA
MOTA	2663	Ŋ					46.392	1.00 50.60	AAAA
MOTA	2664	CA	PHE	335	25.45				
MOTA	2665	CB	PHE	335	25.41	51.003	47.920	1.00 39.55	AAAA
	2666	CG	PHE	335	24.380	50.054	48.440	1.00 37.98	AAAA
MOTA					_		48.054	1.00 46.72	AAAA
ATOM	2667	CD1	PHE	335	24.38				AAAA
ATOM .	2668	CD2	PHE	335	23.36		49.262	1.00 34.23	
	2669		PHE	335	23.38	47.842	48.478	1.00 49.80	AAAA
ATOM					22.36		49.689	1.00 48.51	AAAA
ATOM	2670	CE2	PHE	335	_				AAAA
ATOM	2671	CZ	PHE	335	22.37		49.296	1.00 40.44	
	2672	С	PHE	335	24.03	3 51.000	45.839	1.00 54.52	AAAA
MOTA					23.60		45.379	1.00 59.24	AAAA
ATOM	2673	0	PHE	335				1.00 50.94	AAAA
MOTA	2674	N	GLU	336	23.30		45.888		
ATOM	2675	CA	GLU	336	21.92	3 52.119	45.406	1.00 57.05	AAAA
				336	21.85		43.924	1.00 60.27	AAAA
MOTA	2676	CB	GLU				43.422	1.00 68.55	AAAA
MOTA	2677	CG	GLU	336	20.43				
MOTA	2678	CD	GLU	336	20.35	2 51.126	42.001	1.00 80.03	AAAA
			GLU	336	20.86	0 50.013	41.735	1.00 84.64	AAAA
ATOM	2679						41.153	1.00 80.68	AAAA
ATOM	2680	OE2	GLU	336	19.77			1.00 55.73	AAAA
MOTA	2681	С	GLU	336	21.06	5 51.135			
	2682	ō	GLU	336	21.21	9 49.917	46.089	1.00 51.33	AAAA
ATOM					20.15	-		1.00 49.54	AAAA
ATOM	2683	N	GLU	337				1.00 48.19	AAAA
ATOM	2684	CA	GLU	337	19.26				
MOTA	2685	CB	GLU	337	18.51	0 51.822	48.764	1.00 47.73	AAAA
				337	18.08	4 51.205	50.077	1.00 55.69	AAAA
MOTA	2686	CG	GLU					1.00 50.17	AAAA
MOTA	2687	CD	GLU	337	19.26			1 00 36 03	AAAA
ATOM	2688	OE1	GLU	337	20.11			1.00 36.03	
	2689		GLU	337	19.35	8 49.494	51.105	1.00 51.25	AAAA
ATOM					18.29			1.00 49.13	AAAA
ATOM	2690	С	GLU	337		_	_	1.00 48.61	AAAA
MOTA	2691	0	GLU	337	17.81	6 50.588			
	2692	N	PHE	338	18.01	5 48.837	47.313	1.00 48.15	AAAA
MOTA					17.09			1.00 48.12	aaaa
MOTA	2693	CA	PHE	338					LAAA
MOTA	2694	CB	PHE	338	16.87		47.249		
	2695	CG	PHE	338	15.88	3 45.777	46.548	1.00 57.22	LAA A
ATOM					16.11				laa.
MOTA	2696		PHE	338					LAAA
ATOM	2697	CD2	PHE	338	14.69				
	2698		PHE	338	15.18	15 44.597	44.566	1.00 60.84	LAAA
ATOM					13.75			1.00 59.41	iaaa
MOTA	2699	CE2	PHE	338					iaaa
ATOM	2700	CZ	PHE	338	14.00	2 44.224		1.00 37.10	
	2701	C	PHE	338	15.75	55 48.714	46.380	1.00 45.46	نهمم
ATOM				338	15.27			1.00 51.11	AAA
ATCM	2702	0	PHE						AAA
MOTA	2703	N	ASP	339	15.1			1 00 40 07	AAA
ATCM-	2704	CA	ASP	339	13.89			1.00 49.97	
			ASP		13.2	70 49.823	48.886	1.00 53.23	AAA
MOTA	2705	CB							AAA
ATOM	2706	CG	ASP	339	12.00	20.02	,	. 1.00 2.1.0	•

ATOM	2707	OD1	ASP	339	12.039	51.858	48.616	1.00 53.79	AAAA
ATOM	2708	OD2		339	10.963	50.118	49.401	1.00 51.15	AAAA
					14.215	51.248	47.076	1.00 55.06	AAAA
MOTA	2709	C	ASP	339					
MOTA	2710	0	ASP	339	14.994	51.922	47.748	1.00 56.47	AAAA
MOTA	2711	N	ASP	340	13.623	51.708	45.978	1.00 58.46	AAAA
ATOM	2712	CA	ASP	340	13.874	53.059	45.484	1.00 67.72	AAAA
ATOM	2713	CB	ASP	340	12.683	53.559	44.664	1.00 71.52	AAAA
ATOM	2714	CG	ASP	340	12.611	52.913	43.295	1.00 79.72	AAAA
	2715		ASP	340	12.528	51.667	43.224	1.00 86.74	AAAA
MOTA	_					53.655	42.288	1.00 83.40	AAAA
ATOM	2716		ASP	340	12.640				
MOTA	2717	C	ASP	340	14.209	54.072	46.572	1.00 69.65	AAAA
MOTA	2718	0	ASP	340	15.204	54.794	46.463	1.00 70.13	AAAA
MOTA	2719	N	GLU	341	13.392	54.130	47.620	1.00 67.11	AAAA
ATOM	2720	CA	GLU	341	13.668	55.077	48.689	1.00 67.87	AAAA
ATOM	2721	CB	GLU	341	13.195	56.478	48.278	1.00 74.87	AAAA
ATOM	2722	CG	GLU	341	13.502	57.576	49.298	1.00 82,72	AAAA
	2723	CD	GLU	341	13.162	58.974	48.790	1.00 90.80	AAAA
ATOM			GLU	341	11.988	59.215	48.431	1.00 90.38	AAAA
ATOM	2724						48.752		
MOTA	2725	OE2	GLU	341	14.072	59.835		1.00 93.36	AAAA
MOTA	<u>2</u> 726	С	GLU	341	13.101	54.719	50.058	1.00 60.22	AAAA
ATOM	2727	0	GLU	341	11.929	54.955	50.347	1.00 58.81	AAAA
MOTA	2728	N	VAL	342	13.956	54.144	50.897	1.00 57.28	AAAA
ATOM	2729	CA	VAL	342	13.594	53.781	52.262	1.00 52.09	AAAA
ATOM	2730	CB	VAL	342	14.195	52.419	52.669	1.00 53.17	AAAA
MOTA	2731		VAL	342	13.730	52.042	54.070	1.00 46.16	AAAA
	2732		VAL	342	13.815	51.356	51.663	1.00 59.09	AAAA
ATOM					14.263	54.843	53.124	1.00 53.31	AAAA
ATOM	2733	C	VAL	342					
MOTA	2734	0	VAL	342	13.763	55.230	54.185	1.00 57.79	AAAA
MOTA	2735	N	ASP	343	15.398	55.306	52.610	1.00 46.24	AAAA
ATOM	2736	CA	ASP	343	16.268	56.289	53.243	1.00 42.60	AAAA
ATOM	2737	CB	ASP	343 .	15.521	57.510	53.781	1.00 43.88	AAAA
ATOM	2738	CG	ASP	343	16.480	58.581	54.290	1.00 46.82	AAAA
ATOM	2739	OD1	ASP	343	16.028	59.581	54.887	1.00 46.16	AAAA
MOTA	2740		ASP	343	17.700	58.414	54.075	1.00 33.01	AAAA
ATOM	2741	C	ASP	343	17.012	55.636	54.395	1.00 35.45	AAAA
		0	ASP	343	16.487	55.480	55.502	1.00 29.39	AAAA
MOTA	2742				18.247	55.249	54.124	1.00 30.51	AAAA
MOTA	2743	N	ARG	344			55.140	1.00 29.43	AAAA
MOTA	2744	CA	ARG	344	19.059	54.613			
ATOM	2745	CB	ARG	344	19.736	53.377	54.561	1.00 30.10	AAAA
MOTA	2746	CG	ARG	344	18.803	52.258	54.180	1.00 33.95	AAAA
MOTA	2747	CD	ARG	344	17.981	51.770	55.365	1.00 20.92	AAAA
ATOM	2748	NE	ARG	344	17.120	50.673	54.936	1.00 29.72	AAAA
ATOM	2749	CZ	ARG	344	16.110	50.176	55.639	1.00 29.13	AAAA
ATOM	2750	NH1	ARG	344	15.805	50.668	56.835	1.00 29.63	AAAA
ATOM	2751		ARG	344	15.379	49.198	55.120	1.00 27.19	AAAA:
ATOM	2752	C	ARG	344	20.116	55.769	55.660	1.00 34.31	AAAA
				344	21.005	5557	56.391	1.00 29.09	AAAA
ATOM	2753	0	ARG SER	345	20.011	56. 45	55.294	1.00 28.34	AAAA
ATOM	2754	N			20.999	57.839	55.715	1.00 30.95	AAAA
MOTA	2755	CA	SER	345					AAAA
ATOM	2756	CB	SER	345	20.669	59.199	55.109	1.00 29.56	
ATOM	2757	OG	SER	345	19.429	59.648	55.610	1.00 29.38	1AAA
ATOM	2758	.C	SER	345 .	21.137	57.988	57.230	1.00 30.92	LAAA
MOTA	2759	0	SER	345	22.155	58.488	57.718	1.00 31.15	LAAA
MOTA	2760	7.7	TYR	346	20.116	57.576	57.975	1.00 25.64	LAAA
MOTA	2761	CA	TYR	346	20.158	57.659	59.433	1.00 26.81	LAAA
ATOM	2762	CB	TYR	346	18.823	57.189	60.006	1.00 34.41	LAAA
	2763	CG	TÝR 🛷		18.529	55.723	59.716	1.00 27.35	LAAA
ATOM				346	19.003	54.708	60.556	1.00 24.87	AAAi
ATOM	2764		TYR			53.352	60.278	1.00 28.05	AAA
MOTA	2765		TYR	346	18.744	-		1.00 28.03	AAA
ATOM	2766	CD2		346	17.795	55.358	58.588		
ATOM	2767	CE2	TYR	346	17.533	54.008		1.00 26.59	AAA.
ATOM	2768	CZ	TYR	346	.18.008	53.015	59.145	1.00 33.75	AAA
ATOM	2769	ОН	TYR	346	17.737	51.691	58.855	1.00 26.06	AAA
ATCM	2770	C	TYR	346	21.277	56.766	59.977	1.00 25.57	AAA
ATOM	2771	ŏ	TYR	346	21.769	56.970	61.085	1.00 28.07	AAA
ATOM	2772	N	MET	347	21.666	55.761	59.198	1.00 29.08	AAA
						-	_		

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MOTA	2773	CA	MET	347	22.720	54.837	59.622	1.00 24.19	AAAA
MOTA	2774	CB	MET	347	22.844	53.678	58.628	1.00 24.87	AAAA
ATOM	2775	CG	MET	347	21.609	52.806	58.543	1.00 23.66	
									AAAA
ATOM	2776	SD	MET	347	21.780	51.503	57.267	1.00 27.02	AAAA
MOTA	2 777	CE.	MET	347	22.115	52.375	55.896	1.00 37.69	AAAA
ATOM	2778	С	MET	347	24.054	55.540	59.737		
								1.00 29.45	AAAA
ATOM	2779	0	MET	347	24.937	55.092	60.479	1.00 28.08	AAAA
MOTA	2780	N	LEU	348	24.188	56.650	59.007	1.00 23.71	AAAA
ATOM	2781	CA	LEU	348	25.418	57.446	58.998		
								1.00 34.11	АААА
MOTA	2782	CB	LEU	348	25.463	58.351	57.757	1.00 25.37	AAAA
MOTA	2783	CG	LEU	348	25.320	57.785	56.344	1.00 30.38	AAAA
MOTA	2784	CD1	LEU	348	25.307	58.944	55.340	1.00 27.44	
	2785								AAAA
ATOM			LEU	348	26.459	56.814	56.041	1.00 36.44	AAAA
ATOM	2786	C	LEU	348	25.507	58.332	60.237	1.00 36.09	AAAA
ATOM	2787	0	LEU	348	26.561	58.894	60.539	1.00 33.30	AAAA
	2788	N	GLU						
MOTA				349	24.394	58.445	60.953	1.00 30.51	AAAA
ATOM	2789	CA	GLU	349	24.313	59.292	62.136	1.00 35.53	AAAA
ATOM	2790	CB	GLU	349	22.908	59.896	62.217	1.00 31.35	AAAA
ATOM	2791	CG	GLU	349	22.518	60.717	61.006		
								1.00 29.09	AAAA
MOTA	2792	CD	GLU	349	23.481	61.859	60.746	1.00 31.78	AAAA
ATOM	2793	0E1	GLU	349	23.937	62.476	61.730	1.00 30.98	AAAA
ATOM	2794	OE2	GLU	349	23.766	62.155	59.569	1.00 30.67	AAAA
ATOM	2795	c	GLU	349	24.663				
						58.633	63.471	1.00 38.48	AAAA
ATOM	2796	0	GLU	349	24.727	59.303	64.502	1.00 40.12	AAAA
MOTA	2797	N	THR	350	24.878	57.326	63.461	1.00 33.58	AAAA
MOTA	2798	CA	THR	350	25.221	56.612	64.681	1.00 29.74	
									AAAA
MOTA	2799	CB	THR	350	23.992	56.363	65.559	1.00 35.91	AAAA
ATOM	2800	0G1	THR	350	23.421	57.615	65.952	1.00 45.03	AAAA
MOTA	2801	CG2	THR	350	24.382	55.586	66.806	1.00 49.48	AAAA
ATOM	2802	C	THR	350	25.821	55.267			
							64.330	1.00 30.63	AAAA
ATOM	2803	0	THR	350	25.535	54.709	63.274	1.00 26.62	AAAA
ATOM	2804	N	LEU	351	26.644	54.740	65.225	1.00 29.07	AAAA
ATOM	2805	CA	LEU	351	27.271	53.461		1.00 24.59	AAAA
MOTA	2806	CB							
			LEU	351	28.584	53.367	65.757	1.00 29.91	AAAA
ATOM	2807	CG	LEU	351	29.591	52.327	65.267	1.00 39.62	AAAA
MOTA	2808	CD1	LEU	351	30.887	52.467	66.039	1.00 37.09	AAAA
MOTA	2809		LEU	351	29.024	50.935	65.415	1.00 54.03	AAAA
ATOM	2810	C	LEU	351	26.314	52.336	65.377	1.00 29.71	AAAA
ATOM	2811	0	LEU	351	26.130	51.364	64.641	1.00 30.53	AAAA
MOTA	2812	N	LYS	352	25.697	52.481	66.543	1.00 28.64	AAAA
ATOM	2813	CA	LYS	352	24.763	51.479	67.061		
								1.00 32.72	AAAA
ATOM	2814	CB	LYS	352	24.913	51.381	68.581	1.00 27.37	AAAA
MOTA	2815	CG	LYS	352	26.230	50.787	69.034	1.00 43.48	AAAA
ATOM	2816	CD	LYS	352	26.536	51.068	70.504	1.00 46.77	AAAA
ATOM	2817	CE	LYS	352	25.484	50.538	71.451		
								1.00 51.52	AAAA
MO A	2818	NZ	LYS	352		50.859	72.866	1.00 62.08	AAAA
A L'OM	2819	С	LYS	352	23.330	51.856	66.731	1.00 32.49	AAAA
A.OM	2820	О	LYS	352	22.953	53.010	66.882	1.00 31.90	AAAA
ATOM	2821	N	ASP	353	22.525	50.916	66.244	1.00 31.44	AAAA
ATOM	2822	CA	ASP	353	21.136	51.286	66.012	1.00 26.50	AAAA
ATOM	2823	CB	ASP	353	20.543	50.635	64.746	1.00 50.09	AAAA
MOTA	2824	CG	ASP	353	20.880	49.176	64.604	1.00 52.79	AAAA
ATOM	2825	OD1		353	21.980	48.861	64.109	1.00 58.55	AAAA
ATOM	2826	OD2	ASP	353	20.040	48.339	64.984	1.00 73.19	AAAA
MOTA	2827	С	ASP	353	20.328	50.930	67.257	1.00 26.41	AAAA
ATOM	2828		ASP	353		50.214	68.136	1.00 25.73	AAAA
ATOM	2829		PRO	354		51.481	67.385	1.00 30.12	AAAA
MOTA	2830	CD	PRO	354	18.428	52.429	66.495	1.00 35.38	AAAA
MOTA	2831	CA	PRO	354	18.276	51.190	68.547	1.00 34.02	AAAA
ATOM	2832	CB	PRO	354	17.091	52.129	68.340	1.00 32.25	AAAA
ATCM	2833	CG	PRO	354	16.974	52.139	66.833	1.00 44.48	AAAA
ATOM	2834	С	PRO	354	17.838	49.736	68.512	1.00 34.00	ዳ ልጹፉ
MOTA	2835	ŏ	PRO	354	17.829	49.111	67.452	1.00 28.28	
									AAAA
ATCM	2836		TRP	355	17.484	49.190	69.664	1.00 23.89	ጓ ልልፉ
ATOM	2837	CA	TRP	355	17.010	47.818	69.669	1.00 33.84	LAAA
ATOM	2838	CB	TRP	355	16.653	47.363	71.076	1.00 33.84	AAA #
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ATOM	2839	CG	TRP	355	17.844	46.946	71.832	1.00 49.97	AAAA
A 1 O11									
MOTA	2840	CD2	TRP	355	18.364	45.622	71.905	1.00 46.60	AAAA
		CE2		355	19.567	45.682	72.639	1.00 54.73	AAAA
MOTA	2841	CEZ	TRP						
MOTA	2842	CE3	TRP	355	17.931	44.386	71.419	1.00 46.90	AAAA
					18.723	47.746	72.507	1.00 56.10	AAAA
ATOM	2843	CDl		355					
ATOM	2844	NE1	TRP	355	19.765	46.991	72.997	1.00 56.07	AAAA
	-						72.897	1 00 EE 3E	
MOTA	2845	CZ2	TRP	355	20.340	44.552		1.00 55.25	AAAA
ATOM	2846	CZ3	ם סידי	355	18.696	43.267	71.674	1.00 50.74	AAAA
MOTA	2847	CH2	TRP	355	19.887	43.356	72.405	1.00 50.68	AAAA
	2848	c ·	TRP	355	15.789	47.712	68.776	1.00 33.12	AAAA
ATOM		Ç							
MOTA	2849	0	TRP	355 -	15.096	48.705	68.550	1.00 29.41	AAAA
		M		356	15.547	46.508	68.263	1.00 23.90	AAAA
MOTA	2850	N	ARG						
MOTA	2851	CA	ARG	356	14.413	46.237	67.387	1.00 23.96	AAAA
				356	14.892	46.096	65.935	1.00 22.66	AAAA
MOTA	2852	CB	ARG						
MOTA	2853	CG	ARG	356	15.505	47.385	65.393	1.00 29.06	AAAA
				356	16.291	47.212	64.108	1.00 28.92	AAAA
MOTA	2854	CD	ARG					The state of the s	
ATOM	2855	NE	ARG	356	16.833	48.503	63.686	1.00 24.73	AAAA
					17.733	48.668	62.724	1.00 23.57	AAAA
MOTA	2856	CZ	ARG	356					
MOTA	2857	NHl	ARG	356	18.209	47.616	62.066	1.00 22.15	AAAA
				356	18.153	49.891	62.418	1.00 22.69	AAAA
ATOM	2858	NH2	ARG						
MOTA	2859	С	ARG	356	13 <i>.</i> 781	44.944	57.878	1.00 24.89	AAAA
				356	13.785	43.925	67.189	1.00 22.25	AAAA
MOTA	2860	0	ARG						
ATOM	2861	N	GLY	357	13.231	44.993	69.085	1.00 23.91	AAAA
					12.631	43.805	69.657	1.00 26.72	AAAA
MOTA	2862	CA	GLY	35 7					
ATOM	2863	С	GLY	357	11.138	43.671	69.465	1.00 26.90	AAAA
				357	10.536	44.330	68.619	1.00 29.87	AAAA
MOTA	2864	0	GLY						
ATOM	2865	N	GLY	358	10.544	42.797	70,265	1.00 28.22	ببيني
		CA	GLY	358	9.118	42.561	70.188	1.00 30.96	AAAA
MOTA	2866								
ATOM	2867	С	GLY	358	8.800	41.274	70.920	1.00 30.03	AAAA
	2868	0	GLY	358	9.626	40.757	71.663	1.00 24.03	AAAA
ATOM									
ATOM	2869	N	GLU	359	7.601	40.747	70.715	1.00 28.34	AAAA
	2870	CA	GLU	359	7.218	39.509	71.366	1.00 24.37	AAAA
MOTA									AAAA
MOTA	2871	CB	GLU	359	5.699	39.372	71.375	1.00 32.52	
ATOM	2872	CG	GLU	359	4.981	40:327	72.299	1.00 45.44	AAAA
		•				40.250	72.132	1.00 50.43	AAAA
ATOM	2873	CD	GLU	3 <i>59</i>	3.472				
ATOM	2874	OE1	GLU	359	2.924	39.125	72.151	1.00 42.92	AAAA
				359	2.839	41.316	71.987	1.00 40.72	AAAA
MOTA	2875	OE2	GLU						
MOTA	2876	С	GLÜ	359	7.804	38.323	70.628	1.00 27.35	AAAA
				359	8.138	38.415	69.449	1.00 22.94	AAAA
MOTA	2877	0	GLU						
ATOM	2878	N	VAL	360	7.944	37.208	71.325	1.00 19.68	AAAA
	2879	CA	VAL	360	8.441	36.017	70.672	1.00 21.28	AAAA
ATOM									
ATOM	2880	CB	VAL	360	9.300	35.188	71.621	1.00 26.71	AAAA
MOTA	2881	CG1	VAL	360	9.783	33.917	70.912	1.00 20.64	AAAA
								1.00 25.79	AAAA
ATOM	2882	CG2	VAL	360	10.486	36.038	72.113		
MOTA	2883	C	VAL	360	7.228	35.202	70.197	1.00 25.51	AAAA
						34.700	71.01	1.00 19.75	AAAA
ATOM	2884	0	VAL	360	6.442		71.01	1.00 13.73	AAAA
ATOM	2885	N	ARG	361	7.065	35.094	68.87.5	1.00 18.48	AAAA
					5.947	34.337	68.3C`	1.00 22.01	AAAA
ATOM	2886	CA	ARG	361					
ATOM	2887	CB	ARG	361	5.988	34.389	66.772	1.00 19.31	AAAA
				361	5.446	35.671	66.204	1.00 30.86	AAAA
ATOM	2888	CG	ARG			35.071			
ATOM	2889	CD	ARG	361	5.7 35	35.730	64.723	1.00 37.95	AAAA
	2890	NE	ARG	361	7.111	36.148	64.460	1.00 30.73	AAAA
MOTA									
MOTA	2891	CZ	ARG	361	7.616	36.275	63.242	1.00 22.89	AAAA
ATOM	2892		ARG	361	6.851	36.006	62.186	1.00 19.02	AAAA
									AAAA
MOTA	2893	NH2	ARG	361	8.861	36.704	63.081	1.00 23.47	
ATOM	2894	C	ARG	361	5.897	32.879	68.714	1.00 26.11	AAAA
									AAAA
ATOM	2895	0	ARG	361	6.926	32.255	68.968	1.00 21.79	
ATCM	2896	33	LYS	362	4.681	32.338	68.763	1.00 24.89	AAAA
							69.125	1.00 28.63	AAAA
ATOM	2897	СA	LYS	362	4.479	30.938			
ATOM	2898	CB	LYS	362	2.981	30.570	69.070	1.00 22.91	AAAA
						31.200	70.168	1.00 50.86	AAAA
ATOM	2899	CG	LYS	362	2.145				
ATOM	2900	CD	LYS	362	2.290	32.715	70.157	1.00 57.51	AAAA
				362	1.923	33.278	68.799	1.00 50.87	AAAA
ATOM	2901	CE	LYS						
ATCM	2902	NZ	LYS	362	2.307	34.683	68.711	1.00 22.99	АААА
			LYS	362	5.269	30.014	68.202	1.00 16.77	AAAA
ATOM	2903	C						1 00 22 00	
ATOM	2904	0	LYS	362	5.808	29.007	68.647	1.00 22.90	AAAA
7.011							-		•

ATOM	2905	N	GLU	363	5.311	30.355	66.913	1.00 25.24	****
ATOM	2906	CA	GLU		6.055	29.577	65.910	1.00 26.29	AAAA
ATOM	2907	CB	GLU						ર્સતૈતૈત
	-				5.207	30.342	64.608	1.00 33.50	AAAA
ATOM	2908	CG	GLU		4.999	30.639	63.824	1.00 48.73	AAAA
MOTA	2909	CD	GLU	363	5.368	31.494	62.638	1.00 42.01	ببير
ATOM -	2910	OE1	GLU	363	6.299	31.087	61.895	1.00 28.50	AAAA
ATOM	· 2911		GLU		4.738	32.558	62.461	1.00 44.91	
ATOM	2912	c	GLU						AAAA
					7.481	29.326	66.349	1.00 19.00	ÄAAÄ
MOTA	2913	0	GLU	363	8.011	28.218	66.226	1.00 18.66	AAAA
MOTA	2914	27	VAL	364	8.121	30.399	66.790	1.00 20.69	AAAA
ATOM	2915	CA	VAL	364	9.501	30.303	67.219	1.00 23.13	AAAA
ATOM	2916	CB	VAL	.364	10.096	31.681	67.510	1.00 16.98	
ATOM	2917		VAL	364	11.515				AAAA
						31.513	68.010-		AAAA
ATOM	2918		VAL	364	10.082	32.548	66.242	1.00 23.99	AAAA
ATOM	2919	С	VAL	364	9.625	29.415	68.448	1.00 19.28	AAAA
MOTA	2920	0	VAL	364	10.507	28.548	68.510	1.00 20.17	- አአኡኡ
ATOM	2921	N	LYS	365	8.735	29.600	69.417	1.00 21.11	AAAA
ATOM	2922	CA	LYS	365	8.780	28.768	70.612	1.00 18:15	
ATOM	2923	CB	LYS	365	7.711	29.210	71.626		AAAA
ATOM	2924							1.00 25.22	aaaa
		CG	LYS	365	7.921	30.611	72.167	1.00 32.99	સ્ત્રેસ્સ
ATOM	2925	CD	LYS	365	6.901	30.949	73.253	1.00 36.09	AAAA
ATOM	2926	CE	LYS	365	7.121	32.357	73.790	1.00 28.99	AAAA
ATOM	2927	NZ	LYS	365	5.178	32.736	74.882	1.00 38.98	AAAA
ATOM	2928	C	LYS	365	8.574	27.305	70.236	2.00 19.49	
ATOM	2929	ō	LYS	365	9.255				AAAA
ATOM	2930	N				26.417	70.758	1.00 22.04	AAAA
			ASP	366	7.635	27.048	69.327	1.00 22.45	સંસ્ત <u>ે</u> સ
ATOM	2931	CA	ASP	366	7.386	25.669	68.915	1.00 22.62	aaaa
ATOM	2932	CB	ASP	366	• 6.173	25.574	67.967	1.00 21.69	አሕሕሕ
MOTA	2933	CG	ASP	366	4.870	25.987	68.634	1.00 27.75	AAAA
ATOM	2934	001	ASP	366	4.763	25.890	69.881	1.00 31.01	AAAA
ATOM	2935	CD2		366	3.938	26.382	67.907		
ATOM	2936	C						1.00 33.20	AAAA
			ASP	366	8.606	25.034	68.237	1.00 24.53	AAAA
ATOM	2937	0	ASP	366	8.924	23.871	68.480	1.00 21.13	AAAA
ATOM	2938	21	THR	367	9.281	25.787	67.380	1.00 26.19	AAAA
MOTA	2939	CA	THR	367	10.462	25.252	66.694	1.00 21.68	AAAA
ATOM	2940	СВ	THR	367	11.035	26.301	65.742	1.00 14.56	AAAA
ATOM	2941	CG1	THR	367	10.085	26.545	64.697		
ATOM	2942	332	THR	367	12.340			1.00 21.76	AAAA
						25.825	65.138	1.00 19.83	AAAA
MOTA	2943	C	THR	367	11.523	24.822	67.710	1.00 19.02	AAAA
ATOM	2944	0	THR	367	12.071	23.717	67.625	1.00 21.79	AAAA
MOTA	2945	23	LEU	368	11.802	25.684	68.683	1.00 18.42	AAAA
ATOM	2946	CA	LEU	368	12.797	25.348	69.700	1.00 21.02	٨٨٨٨
ATOM	2947	CB	LEU	368	13.148	26.569	70.560	1.00 17.34	AAAA
ATOM	2948	CG	LEU	368	14.206	27.518	69.959	1.00 17.45	
ATOM	2949		LEU	368					AAAA
	2950				15.525	26.758	69.817	1.00 16.83	AAAA
ATOM			LEU	368	13.756	28.041	68.593	1.00 19.49	AAAA
MOTA		<i>-</i> :	LEU	368	12.361	24.189	70.589	1.00 23.17	AAAA
ATOM	2952		LEU	368	13.203	23.420	71.052	1.00 24.81	AAAA
MOTA	2953	M	GLU	369	11.059	24.055	70.839	1.00 23.97	AAAA
ATOM	2954	CA	GLU	369		22.929	71.653	1.00 19.36	AAAA
ATOM	2955	CB	GLU	369	9.127	23.113	72.063		
*								1.00 21.81	AAAA
ATOM	2956	CG	GLU	369	8.913	24.225	73.100	1.00 40.15	AAAA
ATOM	2957	CD	GLU	369	7.450	24.416	73.487	1.00 49.38	AAAA
ATOM	2958	CEI	GLU	369	6.806	23.429	73.905	1.00 43.26	AAAA
ATOM	2959	OE2		369	6.948	25.558	73.382	1.00 57.31	AAAA
ATOM	2960	C	GLU	369	10.778	21.623	70.859		
ATOM	2961							1.00 24.29	AAAA
		5	GLU	369	11.172	20.605	71.420	1.00 25.96	AAAA
ATOM	2962	N	LYS	370	10.488	21.643	69.560	1.00 22.98	AAAA
ATOM	2963	CA	LYS	370	10.665	20.437	68.746	1.00 23.19	AAAA
MOTA	2964	CB	LYS	3 7 0	10.051	20.596	67.347	1.00 26.83	AAAA
ATOM	2965		LYS	370	8.537	20.461	67.287	1.00 36.68	AAAA
ATOM	2966		LYS	370	3.056	20.431	65.832		
								1.00 39.85	AAAA
ATOM	2967		LYS	370	6.567	20.105	65.740	1.00 56.23	aaaa
ATCM	2968		LYS	370	6.082	19.996	64.326	1.00 56.10	AAAA
ATOM	2969	C	LYS	370	12.148	20.123	68.602	1.00 31:63	AAAA
ATOM	2970	0	LYS	370	12.549	18.958	68.587	1.00 36.88	AAAA

•							CO 401	1 00 00 00	
ATOM	2971	N	ALA	371	12.961	21.170	68.491	1.00 26.25	AAAA
	2972	CA	ALA	371	14.407	21.009	68.360	1.00 27.33	AAAA
MOTA									
ATOM	2973	CB	ALA	371	15 079	22.370	68.188	1.00 23.70	AAAA
ATOM	2974	С	ALA	371	14.989	20.308	69.581	1.00 26.74	AAAA
	-							1.00 29.52	AAAA
MOTA	2975	0	ALA	371	15.892	19.482	69.452		
	2976	N	ALA	372	14.484	20.652	70.764	1.00 24.83	AAAA
ATOM								1.00 34.24	
ATOM	2977	CA	ALA	372	14.959	20.055	72.012	1.00 34.24	AAAA
	2978	CB	ALA	372	14.305	20.750	73.214	1.00 37.17	AAAA
MOTA									
ATOM	2979	С	ALA	.372	14.663	18.564	72.061	1.00 45.62	AAAA
	2980	Ō	ALA	372	15.563	17.741	72.280	1.00 35.52	AAAA
ATOM		U							
ATOM	2981	N	ALA	373	13.394	18.216	71.869	1.00 44:50	AAAA
	2982	CA	ALA	373	13.004	16.813	71.892	1.00 49.88	AAAA
MOTA									
ATOM	2983	CB	ALA	3 7 3	11.506	16.681	71.628	1.00 49.32	AAAA
	2984	С	ALA	373	13.807	16.072	70.825	1.00 44.64	AAAA
ATOM							71.201	1.00 58.19	AAAA
MOTA	2985	0	ALA	373	14.669	15.250			
MOTA	2986	ብ ሃ ጥ	ALA	373	13.591	16.337	69.626	1.00 41.63	AAAA
						43.907	49.242	1.00 13.03	SOLV
HETATM	2987	OHZ	WAT.	1	36.368				
HETATM	2988	OH2	WAT	2	23.107	30.584	59.802	1.00 11.42	SOLV
					20.594	33.744	61.457	1.00 14.73	SOLV
HETATM		OH2	WA'I	3					
HETATM	2990	OH2	WAT	4	31.359	16.551	51.590	1.00 19.84	SOLV
					30.389	18.140	45.769	1.00 19.94	SOLV
HETATM	2991	OHZ	TAW	5					
HETATM	2992	CH2	TAW	6	16.925	41.748	56.551	1.00 13.33	SOLV
				7	28.448	16.084	62.316	1.00 14.08	SOLV
HETATM	2993	OH2	WAT						
HETATM	2994	OH2	WAT	8	40.375	38.476	55.678	1.00 19.10	SOLV
				9	18.455	29.667	54.797	1.00 18.81	SOLV
HETATM	2995		TAW						
HETATM	2996	OH2	WAT	10	26.305	18.390	59.507	1.00 16.65	SOLV
HETATM			WAT	11	50.145	32.063	58.142	1.00 16.53	SOLV
									SOLV
HETATM	2998	OH2	TAW	12	45.935	30.996	40.672	1.00 25.08	
HETATM		OHO	WAT	13	26.358	43.110	74.179	1.00 22.91	SOLV
				•				1.00 25.49	SOLV
HETATM	3000	OH2	WAT	14	48.727	24.720	56.917		
HETATM	3001	OH2	WAT	15	30.244	18.663	50.165	1.00 25.78	SOLV
							63.631	1.00 22.40	SOLV
HETATM	3002	OH2	TAW	16	10.615	28.799			
HETATM	3003	OH2	WAT	17	18.401	20.018	62.704	1.00 21.46	SOLV
					22.195	47.791	60.896	1.00 26.19	SOLV
HETATM	3004	OHZ	WAT	18					
HETATM	3005	OH2	WAT	19	3:278	32.141	65.350	1.00 20.38	SOLV
					23.643	22.897	59.512	1.00 21.27	SOLV
HETATM			TAW	20					SOLV
HETATM	3007	OH2	WAT	. 21	50.287	23.101	48.818	1.00 19.73	
HETATM			WAT	22	44.725	34.256	46.541	1.00 18.74	SOLV
								1.00 22.33	SOLV
HETATM	3009	OH2	TAW	23	8.346	30.527	49.922		
HETATM			TAW	24	39.855	33.795	67.390	1.00 20.43	SOLV
							57.779	1.00 19.24	SOLV
HETATM	3011	OH2	WAT	25	7.827	32.763			
HETATM		CH2	WAT	26	45.388	34.567	36.246	1.00 20.86	SOLV
					47.636	32.244	33.388	1.00 20.41	SOLV
HETATM	3013	OHZ	TAW	27					SOLV
HETATM	3014	OH2	WAT	28	32.514	35.684	41.278	1.00 24.76	
				29	26.188	15.341	61.913	1.00 19.63	SOLV
HETATM			WAT						SOLV
HETATM	3016	OH2	WAT	30	14.957	43.169	56.333	1.00 23.80	
HETATM		0H2	WAT	31	24.483	43.556	55.704	1.00 27.25	SOLV
UPIWIM	301/					16.376	48.456	1.00 25.99	SOLV
HETATM	3018	OH2	TAW	32	41.141			1.00 23.33	
HETATM		022	WAT	3 3	23.104	17.625	54.086	1.00 26.37	SOLV
					51.301	28.602	57.694	1.00 32.78	SOLV
HETATM	3020	OH2	TAW	34					
HETATM	3021	OH2	WAT	35	51.376	29.469	53.156	1.00 24.27	SOLV
					12.518	22.131	49.816	1.00 23.60	SOLV
HETATM	3022	OH2	WAT	36					SOLV
HETATM	3023	OH2	WAT	37	6.521	27.442	50.861	1.00 25.87	
				38	30.390	33.757	34.190	1.00 19.87	SOLV
HETATM	3024		WAT					1.00 32.01	SOLV
HETATM	3025	OH2	WAT	39	8.328	29.586 [.]	62.062		
				40	30.180	24.235	30.724	1.00 22.61	SOLV
HETATM			TAW					1.00 27.52	SOLV
HETATM	3027	OH2	TAW	41	44.521	30.663	38.395		
HETATM			WAT	42	30.981	18.043	41.186	1.00 23.45	SOLV
							73.830	1.00 29.36	SOLV
HETATM	3029	OH2	WAT	43	14.632	37.127			
HETATM			WAT	44	39.332	25.953	72.230	1.00 21.87	SOLV
						37.592	51.896	1.00 39:62	SOLV
HETATM	3031	OH2	TAW	45	7.597				
HETATM			WAT	46	15.027	18.079	54.827	1.00 26.65	SOLV
					11.076	45.493	66.435	1.00 38.18	SOLV
HETATM		OH2	TAW	47					SOLV
HETATM		OH2	VAT	48	42.124	18.055	37.233	1.00 28.62	
					48.736	25.764	64.149	1.00 31.88	SOLV
HETATM	5035		WAT	49					SOLV
HETATM	3036	OH2	WAT	50	50.383	27.254	54.972	1.00 24.36	3050

HETATM 3037	CH2 WAT	51	48.659	36.025	68.226	1.00 33.89	60111
HETATM 3038	OH2 WAT	52	36.998	27.228			SOLV
					71.440	1.00 21.03	SOLV
HETATM 3039	OH2 WAT	53	41.303	16.309	55.307	1.00 32.23	SOLV
HETATM 3040	OH2 WAT	54	33.242	39.524	49.454	1.00 29.77	SOLV
HETATM 3041	OH2 WAT	55	45.004	25.973	35.031	1.00 21.59	
							SOLV
HETATM 3042	OH2 WAT	56	19.039	25.829	45.793	1.00 33.48	SOLV
HETATM 3043	OH2 WAT	57	17.922	35.542	50.154	1.00 37.51	SOLV
HETATM 3044	CH2 WAT	58	10.409	26.864	73.166	1.00 26.54	SOLV
HETATM 3045	OH2 WAT	59	11.835	22.805			
					59.408	1.00 20.83	SOLV
HETATM 3046	OH2 WAT	60	. 18.254	48.699	53.224	1.00 28.41	SOLV
HETATM 3047	OH2 WAT	61	10.426	26.647	60.447	1.00 32.72	SOLV
HETATM 3048	OH2 WAT	62	21.304	55.086	63.510	1.00 28.84	
HETATM 3049	OH2 WAT	63					SOLV
· -			32.532	51.211	45.469	1.00 32.48	SOLV
HETATM 3050	OH2 WAT	64	22.658	61.079	57.420	1.00 27.32	SOLV
HETATM 3051	OH2 WAT	65	16.734	24.334	74.721	1.00 27.44	SOLV
HETATM 3052	OH2 WAT	66	32.758	37.824	54.391	1.00 25.07	
HETATM 3053	OH2 WAT	67					SOLV
	and the second s		11.142	25.859	49.706	1.00 29.66	SOLV
HETATM 3054	OH2 WAT	68	24.192	15.261	53.236	1.00 30.21	SOLV
HETATM 3055	OH2 WAT	69	19.816	17.916	66.357	1.00 30.50	SOLV
HETATM 3056	OH2 WAT	70	50.347	23.975	53.197	1.00 28.08	SOLV
HETATM 3057	OH2 WAT	71	50.258				
				30.918	51:113	1.00 20.19	SOLV
HETATM 3058	OH2 WAT	72	21.047	17.624	68.693	1.00 41.23	SOLV
HETATM 3059	OH2 WAT	73	26.782	33.756	49.995	1.00 25.80	SOLV
HETATM 3060	OH2 WAT	74	12.570	43.844	64.441	1.00 31.03	SOLV
HETATM 3061	OH2 WAT	75	35.555	41.287			
					50.852	1.00 24.03	SOLV
HETATM 3062	OH2 WAT	76	27.764	18.231	61.827	1.00 18.28	SOLV
HETATM 3063	OH2 WAT	77	26.715	29.236	38.391	1.00 23.18	SOLV
HETATM 3064	OH2 WAT	78	21.461	23.245	48.872	1.00 23.80	SOLV
HETATM 3065	OH2 WAT	79	49.246	28.263	65.477	1.00 21.52	
		-					SOLV
HETATM 3066	OH2 WAT	80	31.785	13.301	69.606	1.00 31.11	SOLV
HETATM 3067	OH2 WAT	81	49.811	34.740	59.229	1.00 31,76	SOLV
HETATM 3068	OH2 WAT	82	45.670	33.188	42.470	1.00 23.13	SOLV
HETATM 3069	OH2 WAT	83	9.408	39.751	55.872		
						1.00 31.53	SOLV
HETATM 3070	OH2 WAT	84 .	35.166	35.878	29.899	1.00 37.32	SOLV
HETATM 3071	OH2 WAT	85	41.927	22.970	73.694	1.00 44.07	SOLV
HETATM 3072	OH2 WAT	86	22.125	34.577	49.199	1.00 44.65	SOLV
HETATM 3073	OH2 WAT	87	43.984	33.541	37.965		
HETATM 3074						1.00 24.88	SOLV
	OH2 WAT	88	11.997	17.962	56.312	1.00 34.85	SOLV
HETATM 3075	OH2 WAT	89	42.194	14.737	59.766	1.00 25.91	SOLV
HETATM 3076	OH2 WAT	90	49.313	24.200	41.684	1.00 29.29	SOLV
HETATM 3077	OH2 WAT	91	48.504	33.595	61.519	1.00 30.32	SOLV
HETATM 3078	OH2 WAT	92	24.773	18.356			
					33.365	1.00 53.13	SOLV
HETATM 3079	OH2 WAT	93	35.160	35.656	47.470	1.00 41.41	SOLV
HETATM 3080	OH2 WAT	94	44.682	36.658	39.962	1.00 29.24	SOLV
HETATM 3081	OH2 WAT	95	9.576	41.033	52.549	1.00 51.83	SOLV
HETATM 3082	OH2 WAT	`6	47.199	20.112	42.102	1.00 40.39	
•							SOLV
HETATM 3083	OH2 WAT	7ر ·	49.254	26.331	59.641	1.00 37.03	SOLV
HETATM 3084	OH2 WAT	۔ 8	26.808	37.600	38.172	1.00 28.74	SOLV
HETATM 3085	OH2 WAT	99	40.749	14.572	64.635	1.00 33.42	SOLV
HETATM 3086	OH2 WAT	100	24.850	44.161	47.775	1.00 27.89	SOLV
HETATM 3087	OH2 WAT	101	34.326	42.063	46.714	1.00 42.22	SOLV
HETATM 3088	OH2 WAT	102	30.226	34.544	52.026	1.00 30.77	SOLV
HETATM 3089	OH2 WAT	103	47.824	39.054	78.097	1.00 52.16	SOLV
HETATM 3090	OH2 WAT	104	19.665	18.953	47.438	1.00 51.70	
							SOLV
HETATM 3091	OH2 WAT	105	46.857	36.525	46.232	1.00 23.65	SOLV
HETATM 3092	OH2 WAT	106	48.069	19.460	67.360	1.00 37.56	SOLV
HETATM 3093	OH2 WAT	107	15.553	56.850	61.838	1.00 46.95	SOLV
HETATM 3094	OH2 WAT	108	44.026	19.119	70.671	1.00 39.55	
							SOLV
HETATM 3095	OH2 WAT	109	8.139	42.064	65.674	1.00 42.61	SOLV
HETATM 3096	OH2 WAT	110	50.624	36.591	65.779	1.00 31.59	SOLV
HETATM 3097	OH2 WAT	111	51.398	26.073	61.043	1.00 49.09	SOLV
HETATM 3098	OH2 WAT	112	26.174	33.692	33.551	1.00 36.61	SOLV
HETATM 3099	OH2 WAT	113	23.545	20.203	53.001	1.00 24.34	SOLV
HETATM 3100	TAW SHC	114	9.083	42.965	57.697	1.00 33.65	SOLV
HETATM 3101	OH2 WAT	115	8.442	39.898	64.594	1.00 31.21	SOLV
HETATM 3102	OH2 WAT	116	15.219	35.897	51.951		SOLV
	OHE WAT	110	12.413	33.07/	- 21.22T	1.00 26.59	
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HETATM 3103	CH2 W	IAT 117	15.417	38.438	50.473	1.00 34.46	SOLV
HETATM 3104	OH2 W	AT 118	40.757	26.310	29.206	1.00 29.12	SOLV
HETATM 3105	OH2 W	AT 119	27.717	18.542	46.553	1.00 28.17	SOLV
HETATM 3108	OH2 W	AT 120	18.612	13.786	56.845	1.00 38.56	SOLV
HETATM 3107	OH2 W		43.198	31.377	72.139	1.00 26.31	SOLV
HETATM 3108	OH2 W	AT 122	44.188	35.704	33.802	1.00 29.81	SOLV
HETATM 3109			50.736	40.909	58.456	1.00 32.40	SOLV
HETATM 3110	OH2 W	AT 124	31.302	33.760	31.742	1.00 30.84	SOLV
HETATM 3111	. OH2 W	AT 125	36.895	21.264	34.198	1.00 34.67	SOLV
HETATM 3112	OH2 W	AT 126	47.474	22.252	67.427	1.00 34.35	SOLV
			7.178	25.936	64.063	1.00 31.77	SOLV
HETATM 3113							
HETATM 3114	OH2 W	AT 128	36.362	66.647	54.021	1.00 36.88	SOLV
HETATM 3115			42.486	35.503	30.348	1.00 26.61	SOLV
HETATM 3116	OH2 W	AT 130	8.432	34.383	50.442	1.00 37.45	SOLV
HETATM 3117		AT 131	37.644	49.018	48.946	1.00 37.33	SOLV
HETATM 3118	3 OH2 W		50.273	41.645	63.380	1.00 37.33	SOLV
HETATM 3119	OH2 W	AT 133	7.518	26.633	61.571	1.00 45.42	SOLV
			31.483	46.197	72.538	1.00 28.02	SOLV
HETATM 3120							
HETATM 3121	. OH2 W	IAT 135	41.501	16.604	58.054	1.00 32.78	SOLV
HETATM 3122		AT 136	45.898	47.740	55.185	1.00 43.47	SOLV
HETATM 3123	OH2 W	IAT 137	16.300	33.614	49.519	1.00 30.37	SOLV
HETATM 3124		AT 138	51.148	36.946	55.148	1.00 46.34	· SOLV
				53.761			
HETATM 3125	OH2 W	IAT 139	21.525		50.892	1.00 38.27	SOLV
HETATM 3126	OH2 W	IAT 140	21.603	54.580	68.690	1.00 33.10	SOLV
			10.191	29.237	60.325	1.00 30.24	SOLV
нетати 3127							
HETATM 3128	OH2 W	AT 142	16.951	18.120	66.901	1.00 40.85	SOLV
			4.943	24.912	51.199	1.00 49.13	SOLV
HETATM 3129							
HETATM 3130) OH2 W	IAT 144	10.711	25.291	58.177	1.00 30.72	SOLV
HETATM 3131		AT 145	30.815	43.398	36.040	1.00 42.23	SOLV
HETATM 3132	CH2 W	AT 146	21.763	24.512	46.695	1.00 28.31	SOLV
HETATM 3133	OH2 W	AT 147	51.788	33.122	50.887	1.00 26.15	SOLV
			24.531	44.741	72.420	1.00 27.99	SOLV
HETATM 3134					•		
HETATM 3135	OH2 W	IAT 149	50.938	23.483	60.422	1.00 38.20	SOLV
HETATM 3136	OH2 W	AT 150	24.860	47.932	61.067	1.00 18.89	SOLV
HETATM 3137	7 OH2 W	<i>IAT</i> 151	27.336	37.304	35.642	1.00 33.58	SOLV
HETATM 3138	OH2 W	IAT 152	38.680	35.535	35.974	1.00 26.89	SOLV
			24.441	16.097	33.317	1.00 48.33	SOLV
HETATM 3139							
HETATM 3140	OH2 W	IAT 154	20.343	18.124	73.416	1.00 36.28	SOLV
HETATM 3143		AT 155	49.765	37.948	74.801	1.00 48.41	SOLV
	_						
HETATM 3142	2 OH2 W	IAT 156	34.329	31.169	47.547	1.00 25.33	SOLV
HETATM 3143	OH2 W	IAT 157	43.028	24.554	72.536	1.00 41.54	SOLV
		•	39.888	15.082	42.035	1.00 28.76	SOLV
HETATM 3144							
HETATM 3145	5 OH2 W	<i>IAT</i> 159	41.886	20.780	73.179	1.00 51.03	SOLV
HETATM 314		IAT 160	22.962	49.969	58.518	1.00 35.04	SOLV
				15.261	68.016	1.00 55.47	SOLV
HETATM 314	7 OH2 W		14.696				
HETATM 3148	3 - OH2 W	IAT 162	14.915	18.181	64.866	1.00 42.00	SOLV
			30.608	49.029	52.612	1.00 47.32	. SOLV
HETATM 3149							
HETATM 3150	OH2 W	IAT 164	52. <u>5</u> 66	30.906	57.612	1.00 36.71	SOLV
HETATM 3151	OH2 W	AT 165	23.699	27.331	77.729	1.00 32.22	SOLV
		•		59.046	63.272	1.00 43.05	SOLV
HETATM 315			36.971				
HETATM 3153	OH2 W	IAT 167	46.053	45.927	52.876	1.00 33.66	SOLV
			42.780	49.151	58.106	1.00 44.63	SOLV
HETATM 3154							
HETATM 3155	OH2 W	IAT 169	15.100	44.506	72.183	1.00 45.43	SOLV
HETATM 3156			31.677	60.998	50.050	1.00 34.51	SOLV
					45 . 578	1.00 55.85	SOLV
HETATM 3157			25.336	45.674			
HETATM 3158	OH2 W	AT 172	17.481	18.266	49.018	1.00 32.73	SOLV
			26.112	18.147	31.404	1.00 49.94	SOLV
HETATM 3159		-					
HETATM 3160) OH2 W	IAT 174	45.874	43.142	70.985	1.00 32.89	SOLV
HETATM 3161		IAT 175	34.517	17.884	33.278	1.00 42.20	SOLV
						1.00 40.74	SOLV
HETATM 3162	OH2 W		16.330	54.886	50.466		
HETATM 3163	OH2 W	IAT 177	31.400	51.087	74.689	1.00 38.56	SOLV
			50.971	27.079	67.130	1.00 44.49	SOLV
HETATM 3164							
HETATM 3165	OH2 W	IAT 179	7.933	23.412	54.691	1.00 42.84	SOLV
HETATM 3166	OH2 W		33.498	47.596	73.612	1.00 35.99	SOLV
				19.583	44.954	1.00 51.31	SOLV
HETATM 3167			26.016				
HETATM 3168	OH2 W	NAT 182	40.139	17.026	74.920	1.00 43.64	SOLV
					-		_

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METATM	3169		TAK	183	10.441	42.659	62.744	1.00 34.51	SOLV
HETATM	3170	OH2	WAT	184	2.095	34.482	65.810	1.00 36.49	SOLV
HETATM	3171		WAT	185	45.749	18.286	51.615	1.00 28.19	SOLV
HETATM			WAT	186	25.771	38.332	76.707	1.00 45.53	SOLV
HETATM			WAT	187	7.228	40.382	57.542	1.00 48.91	SOLV
HETATM	_	_	TAW	188					
					42.972	52.824	67.739	1.00 39.99	SOLV
HETATM			WAT	189	20.137	13.189	73.277	1.00 44.91	SOLV
HETATM			WAT	190	48.945	19.193	47.581	1.00 52.88	SOLV
HETATM	_		TAW	191	14.549	34.547	47.665	1.00 49.15	SOLV
METATM	3178	0.2	WAT	192	31.765	20.567	26.536	1.00 42.23	SOLV
MTATM	3179	OH2	WAT	193	9.784	39.303	74.222	1.00 32.10	SOLV
HETATM	3180	OH2	WAT	194	28.865	12.481	52.375	1.00 50.98	SOLV
HETATM	3181	OH2	WAT	195 ·	24.030	12.804	70.409-	1.00 52.43	SOLV
HETATM	3182	OH2	WAT	196	47.209	39.536	50.698	1.00 43.03	SOLV
HETATM	-		WAT	197	35.618	18.114	27.306	1.00 41.11	SOLV
HETATM			WAT	198	23.625	48.145	43.853	1.00 48.20	SOLV
HETATM			WAT	199	37.090	59.044	54.185	1.00 34.99	SOLV
HETATM			WAT	200	34.478	12.208	59.080	1.00 36.58	SOLV
HETATM			WAT	201	22.142	29.583	76.228	1.00 33.95	SOLV
HETATM			WAT	202	13.608		53.973		-
			_			42.619		1.00 40.44	SOLV
HETATM			WAT	203	42.647	18.701	72.526	1.00 55.64	SOLV
METATM			WAT	204	37.005	35.993	77.480	1.00 34.82	SOLV
HETATM			WAT	205	34.154	20.512	33.327	1.00 31.00	SOLV
HETATM	-		TAW	206	37.264	57.546	47.642	1.00 49.58	SOLV
HETATM	3193	OH2	WAT	207	17.924	35.195	79.003	1.00 38.45	SOLV
HETATM	3194	OH2	WAT	208	51.172	31.581	62.378	1.00 35.37	SOLV
HETATM	3195	OH2	WAT	209	50.503	36.726	79.224	1.00 39.95	SOLV
HETATM	3196	CH2	TAW	210	18.382	13.162	63.852	1.00 52.08	SOLV
HETATM	3197	CH2	WAT	211	27.245	8.351	5 5 .199	1.00 39.12	SOLV
HETATM	3198	OH2	WAT	212	18.354	13.545	59.540	1.00 30.15	SOLV
HETATM		OH2		213	49.088	51.744	63.388	1.00 36.69	SOLV
HETATM			WAT	214	23.251	33.160	50.871	1.00 42.11	SOLV
HETATM			WAT	215	12.989	35.073	50.651	1.00 38.63	SOLV
HETATM			WAT	216	24.414	44.460	43.239	1.00 37.93	SOLV
HETATM		OH2		217	24.690	47.590	73.117	1.00 37.33	SOLV
HETATM									
			TAW	218	19.844	17.949	81.360	1.00 40.74	SOLV
HETATM		OH2		219	40.169	27.215	74.247	1.00 37.83	SOLV
HETATM			WAT	220	38.737	39.516	73.171	1.00 49.20	SOLV
HETATM			TAV	221	50.628	21.408	46.879	1.00 45.57	SOLV
HETATM			TAW	222	35.436	43.288	75.660	1.00 37.33	SOLV
HETATM			WAT	223	34.390	16.963	55.285	1.00 35.10	SOLV
HETATM			WAT	224	21.900	35.454	34.475	1.00 46.29	SOLV
HETATM	3211	OH2	WAT	225	15.751	40.989	46.787	1.00 62.75	SOLV
HETATM	3212	OH2	WAT	226	23.844	48.662	66.295	1.00 38.35	SOLV
HETATM	3213	OH2	TAW	227	47.225	20.562	55.117	1.00 49.99	SOLV
HETATM	3214	OH2	WAT	228	23.426	19.272	50.565	1.00 30.07	SOLV

						# v		7	000		C	
) more.	1	CD	NT N		Residue	# X 43.739	Y 36.862	Z 75.052	OCC.	B 64.01	Segment	עו
ATOM	1	CB	ALA		5		38.106	72.971		60.02	6 6	
ATOM	2	C	ALA		2 2	44.405		72.908		57.94		
ATOM	3	0	ALA		2	43.251 46.142	38.536 37.179	74.497		62.88	8 7	
MOTA	4	N	ALA		2		36.966	73.923		63.02	6	
ATOM	5	CA	ALA			44.776						
ATOM	6	N	LYS		3	45.398	38.588	72.233		55.40	7	
ATOM	7	CA	LYS		3	45.196	39.671	71.287		53.02	6	
MOTA	8	CB	LYS		3	46.443	39.830	70.421		53.11	6	
MOTA	9	CG	LYS			47.703	40.093	71.217		57.36	6	
MOTA	10	CD	LYS		3	48.941	39.976	70.349		60.94	6	
MOTA	11	CE	LYS		3	48.909	40.957	69.196		63.48	6	
ATOM	12	NZ	LYS		3	50.075	40.765	68.294		66.87	7	
MOTA	13	C	LYS		3	43.986	39.401	70.399		50.49	6	
MOTA	14	0	LYS		3	43.691	38.255	70.063		52.50	8	
ATOM	15	N	VAL		4	43.281	40.464	70.034		45.96	7	
MOTA	16	CA	VAL		4	42.122	40.352	69.167		41.16	6	
MOTA	17	СВ	VAL		4	40.983	41.272	69.638		41.53	6	
MOTA	18		VAL		4	39.734	41.028	68.797		40.07	6	
MOTA	19		AAL			40.705	41.033	71.115		38.31	6	
ATOM	20	С	VAL		4	42.519	40.796	67.796		39.96	6	
MOTA	21	0	VAL		4	43.123	41.914	67.645		39.15	8	
MOTA	22	N	LYS		5	42.486	39.916	66.807		36.24	7	
MOTA	23	CA	LYS		5	42.956	40.186	65.449		35.66	6	
ATOM	24	CB	LYS		5	43.930	39.088	65.024		37.33	6	
ATOM	25	CG	LYS		5	45.197	38.978	65.860		38.24	6	
MOTA	26	CD	LYS		5	46.113	40.179	65.659		35.41	6	
ATOM	27	CE	LYS		5	47.436	39.957	66.369		37.46	6	
ATOM	28	NZ	LYS		5	48.345	41.121	66.245		35.63	7	
MOTA	29	C	LYS		5	41.840	40.254	64.415		34.40	6	
ATOM	30	0	LYS		5	40.788	39.641	64.588		33.92	8	
ATOM	31	N	LEU		6	42.082	40.983	63.329		32.52		
MOTA	32	CA	LEU		6	41.097	41.094	62.253		33.64	6	
MOTA	33	CB	LEU		6	40.589	42.532	62.114		31.83		
MOTA	34	CG	LEU		6	39.346	42.823	61.248		32.93		
MOTA	35		LEU		6	39.356	44.295	60.899		28.95		
atom	36		LEU		6	39.336	42.031	59.964		32.87		
ATOM	37	С	LEU		6	41.802	40.721	60.955		35.09		
MOTA	38	0	LEU		6	42.631	41.491	60.468		36.93		
MOTA	39	N	ILE		7	41.494	39.561	60.382		35.52		
MOTA	40	CA	ILE		7	42.145	39.199	59.129		35.14		
ATOM	41	CB	ILE		7	42.062	37.711	58.850		33.68		
ATOM	42		ILE		7	42.731	37.409	57.517		32.87		
MOTA	43		ILE		7	42.746	36.941	59.975		33.32		
ATOM	44		ILE		7	42.744	35.451	59.755		35.09		
MOTA	45	C	ILE		7	41.487	39.935	57.971		37.13		
ATOM	46	0	ILE		7	40.258	39.933	57.855		35.21		
ATOM	47	N	GLY		8	42.304	40.563	57.124		37.25		
ATOM -	48	CA	GLY		8	41.771	41.305	55.994		38.69		
ATOM	49	C	GLY		8	42.809	41.939	55.079		39.73 39.21		
MOTA	50	0	GLY		8	44.015	41.827	55.321		39.41		
MOTA	51	N	THR		9	42.335	42.622	54.033 53.057		38.69		
MOTA	52	CA	THR		9	43.212	43.268			37.27		•
ATOM	53	CB	THR		9	44.132	42.210	52.390				
MOTA	54		THR		9	44.754	42.771	51.230		36.82 38.59		
ATOM	55	CG2	THR		9	43.332	40.972	52.001				
ATOM	56	C	THR		9	42.447	44.045	51.970		38.60 37.30		
ATCM	57	C	THR		9	41.434	43.569	51.452				
MOTA	58	N	LEU		10	42.939	45.238	51.628		38.14		
MOTA	59	CA	LEU		10	42.304	46.077	50.609		39.39		
ATOM	60	CB	LEU		10	43.026	47.418	50.456		38.98		
ATOM	61	CG	LEU		10	42.836	48.506	51.510		39.68		
ATOM	62		LEU		10	41.343	48.830	51.594		40.22		
ATOM	63		LEU		10	43.382	48.057	52.857		40.11		
ATOM	54	С	LEU		10	42.238	45.432	49.239		41.66		
'ATOM	65	0	LEU		10	41.462	45.863	48.381		42.08		
ATOM	66	N	ASP	A	11	43.052	44.408	49.025	1.00	43.51	. 7	

ATOM	67	CA ASP A	11		43.071	43.731	47.737	1.00 47.27	6
ATOM	68	CB ASP A	11		44.250	42.765	47.694	1.00 51.03	6
					45.579	43.479	47.858	1.00 54.10	6
ATOM	69	CG ASP A	11					1.00 55.93	8
ATOM	70	OD1 ASP A	11		45.944	44.282	46.975		
ATOM	71	OD2 ASP A	11		46.255	43.251	48.879	1.00 57.79	8
	72	C ASP A	11		41.756	43-016	47.423	1.00 46.36	5
ATOM					41.472	42.702	46.266	1.00 43.49	8
ATOM	73	O ASP A	11					1.00 46.80	7
ATOM	74	N TYR A	12		40.954	42.767	48.456		
ATOM	75	CA TYR A	12		39.654	42.116	48.284	1.00 45.92	6
ATOM	76	CB TYR A	12		38.953	41.942	49.638	1.00 41.38	6
		CG TYR A	12		39.358	40.697	50.390	1.00 38.82	6
ATOM	77			•			51.775	1.00 37.95	6
MOTA	78	CD1 TYR A	12		39.531	40.720			
MOTA	79	CE1 TYR A	12		39.869	39.560	52.476	1.00 36.18	6
ATOM	80	CD2 TYR A	12		39.533	39.479	49.721	1.00 37.69	6
ATOM	81	CE2 TYR A	12		39.868	38.316	50.415	1.00 35.83	6
			12		40.032	38.365	51.787-	1.00 34.10	6
MOTA	82	CZ TYR A					52.470	1.00 36.31	8
ATOM	83	OH TYR A	12		40.339	37.216			
MOTA	84	C TYR A	12		38.786	42.966	47.378	1.00 46.56	6
ATOM	85	O TYR A	12		37.821	42.476	46.791	1.00 47.38	8
	86	N GLY A	13		39.138	44.247	47.278	1.00 47.28	7
ATOM			13		38.385	45.164	46.442	1.00 46.53	6
ATOM	87	CA GLY A					44.968	1.00 45.60	6
ATOM	88	C GLY A	13		38.650	44.934			
ATOM	89	O GLY A	13		37.895	45.401	44.117	1.00 43.68	8
ATOM	90	N LYS A	14		39.725	44.210	44.672	1.00 46.52	7
	91	CA LYS A	14		40.112	43.908	43.296	1.00 47.28	6
ATOM			14		41.629	43.748	43.201	1.00 50.22	6
ATOM	92	CB LYS A					43.307	1.00 57.12	6
ATOM	93	CG LYS A	14		42.396	45.044			
MOTA	94	CD LYS A	14		42.038	46.004	42.161	1.00 63.60	6
MOTA	95	CE LYS A	14		42.349	45.422	40.768	1.00 66.65	6
ATOM -	96	NZ LYS A	14		41.529	44.220	40.387	1.00 67.70	7
		C LYS A	14		39.460	42.643	42.769	1.00 44.18	6
ATOM	97					42.325	41.585	1.00 40.33	8
MOTA	98	O LYS A	14		39.564				7
ATOM	99	N TYR A	15		38.790	41.926	43.661	1.00 43.25	
MOTA	100	CA TYR A	15		38.145	40.665	43.317	1.00 43.18	6
ATOM	101	CB TYR A	15		38.789	39.547	44.142	1.00 36.88	6
	102	CG TYR A	15		40.302	39.560	44.053	1.00 32.96	6
MOTA					41.084	39.107	45.108	1.00 30.90	6
MOTA	103	CD1 TYR A	15				45.035	1.00 30.94	6
ATOM	104	CE1 TYR A	15		42.476	39.144			
MOTA	105	CD2 TYR A	15		40.952	40.049	42.912	1.00 33.01	6
ATOM	106	CE2 TYR A	15		42.341	40.092	42.826	1.00 29.68	6
ATOM	107	CZ TYR A	15		43.098	39.639	43.890	1.00 30.99	6
		OH TYR A	15		44.471	39.673	43.809	1.00 28.02	8
ATOM	108					40.778	43.621	1.00 45.56	6
MOTA	109	C TYR A	15		36.661		44.552	1.00 45.22	8
ATOM	110	O TYR A	15		36.149	40.153			
ATOM	111	N ARG A	16		35.981	41.599	42.830	1.00 48.81	7
ATOM	112	CA ARG A	16		34.553	41.819	42.999	1.90 53.22	6
ATOM	113	CB ARG A	16		34.193	43.263	42.654	1 30 57.11	6
					34.852	44.330	43.490	61.66 ۲۰	6
ATOM	114	CG ARG A	16			44.408	44.886	1.00 67.04	6
ATOM	115	CD ARG A	16		34.280			1.00 73.59	7
ATOM	116	NE ARG A	16		34.798	45.590	45.569		
ATOM	117	CZ ARG A	16		34.612	46.837	45.141		6
ATOM	118	NH1 ARG A	16		33.917	47.065	44.033	1.00 73.03	7
			16		35.142	47.856	45.808	1.00 75.79	7
ATOM	119	NH2 ARG A			33.757	40 903	42.080	1.00 51.79	6
ATOM	120	C ARG A	16				40.970	1.00 50.89	8
MOTA	121	O ARG A	16		34.192	40.593			
MOTA	122	N TYR A	17		32.596	40.463	42.552	1.00 50.19	7
ATOM	123	CA TYR A	17		31.737	39.634	41.733	1.00 49.60	6
	124	CB TYR A	17		30.534	39.119	42.528	1.00 45.80	6
ATOM					30.803	37.894	43.365	1.00 42.01	6
ATOM	125	CG TYR A	17				44.438	1.00 42.45	6
ATOM	126	CD1 TYR A	17		31.589	37.932			6
ATOM	127	CE1 TYR A	17		31.960	36.780	45.193	1.00 43.36	
ATOM	128	CD2 TYR A	17		30.185	36.680	43.062	1.00 39.89	6
	129	CE2 TYR A	17		30.443	35.526	43.803	1.00 40.56	6
ATCM			17		31.333	35.578	44.869	1.00 41.98	6
ATOM	130	CZ TYR A			31.600	34.438	45.598		8
ATOM	131	oh tyr a	17				40.622	1.00 51.88	6
ATOM	132	C TYR A	. 17		31.245	40.547	40.022	1.00 31.00	Ü

2 moM	133 0	TYR A	17	31.332	41.772		1.00 47.86	8
MOTA	134 N		18	30.730	39.964		1.00 54.38	7
ATOM	134 N	PRO A	18	30.548	38.545	39.190	1.00 54.21	6
ATOM	136 CA	PRO A	18	30.243	40.809	38.449	1.00 56.43	6
ATOM		PRO A	18	29.601	39.792	37.496	1.00 56.84	6
ATOM		PRO A	18	29.260	38.613	38.426	1.00 56.46	6
- MOTA	138 CG	PRO A	18	29.273	41.891	38.932	1.00 58.74	6
ATOM	139 C	PRO A	18	28.791	41.861	40.066	1.00 55.72	8
MOTA	140 0		19	29.017	42.851	38.052	1.00 62.10	7
АТОМ	141 N	LYS A	19	28.127	43.973	38.314	1.00 64.85	6
ATOM	142 CA	LYS A	19	27.972	44.781	37.022	1.00 69.74	6
MOTA	143 CB	LYS A	19	28.008	43.925	35.740	1.00 74.99	6
MOTA	144 CG	LYS A	19 .	26.895	42.881	35.668-	1.00 78.18	6
MOTA	145 CD	LYS A	19	26.981	42.010	34.420	1.00 80.24	6
MOTA	146 CE	LYS A LYS A	19	25.867	41.010	34.361	1.00 81.13	7
MOTA	147 NZ	LYS A	19	26.750	43.619	38.869	1.00 64.77	6 -
ATOM	148 C	LYS A	19	26.414	43.961	40.001	1.00 66.50	8
ATOM	149 0	ASN A	20	25.957	42.933	38.062	1.00 63.75	7
ATOM	150 N		20	24.612	42.556	38.439	1.00 62.96	6
ATOM	151 CA	ASN A ASN A	20	23.870	42.031	37.208	1.00 67.42	6
MOTA	152 CB	ASN A	20	22.392	41.833	37.459	1.00 72.29	6
MOTA	153 CG	ASN A	20	21.666	42.785	37.772	1.00 75.25	8
MOTA			20	21.931	40.594	37.322	1.00 74.38	7
ATOM	155 ND2	ASN A	20	24.602	41.512	39.547	1.00 61.30	6
MOTA	156 C	ASN A	20	23.629	40.773	39.698	1.00 61.49	8
MOTA	157 O	HIS A	21	25.681	41.444	40.321	1.00 57.30	7
ATOM	158 N 159 CA	HIS A	21	25.755	40.480	41.418	1.00 54.68	6
ATOM	-	HIS A	21	27.071		41.373	1.00 52.53	6
ATOM	160 CB 161 CG	HIS A	.21	27.058		42.195	1.00 49.39	6
MOTA		2 HIS A	21	27.336	38.236	43.503	1.00 49.39	6
ATOM		1 HIS A	21	26.664	37.229	41.686	1.00 48.27	7
MOTA		1 HIS A	21	26.704		42.643	1.00 48.16	6
MOTA		2 HIS A	21	27.108	36.905		1.00 47.33	7
MOTA	166 C	HIS A	21	25.664			1.00 52.89	6 8
MOTA MOTA	167 0	HIS A	21	26.295		42.947	1.00 52.52	7
ATOM	168 N	PRO A	22	24.880			1.00 50.81	6
ATOM	169 CD	_	22	24.076			1.00 48.02	6
ATOM	170 CA	PRO A	22	24.734			1.00 47.45	6
ATOM	171 CB	PRO A	. 22	23.860			1.00 47.76	6
ATOM	172 CG	PRO A	22	22.990	39.754		1.00 46.48	6
MOTA	173 C	PRO A	22	26.074			1.00 45.69	8
ATOM	174 C	PRO A	22	26.164			1.00 44.97	7
ATOM	175 N	LEU A	23	27.10			1.00 41.31	6
ATOM	176 CA		23	28.44			1.00 39.22	6
ATOM	177 CE		23	29.07				6
ATOM	178 CG	LEU A	23	28.26 29.07			1.00 35.07	6
MOTA		LEU A	23	27.89				6
ATOM		LEU A	23	29.33				6
ATOM	181 C	LEU A	23	30.55	_		1.00 39.00	8
ATOM	182 0	LEU A	23	28.70			1.00 39.67	7
ATOM	183 N	LYS A		29.43	-		1.00 42.88	6
ATOM	184 C		24	28.48				6
ATOM	185 C			28.94			1.00 44.08	6
ATOM	186 C			28.24			1.00 44.47	6
ATOM	187 CI			26.73			1.00 43.23	6
ATCM	188 C			25.98			1.00 39.79	7
MOTA	189 N			30.03			1.00 43.70	
ATOM	190 C	LYS A		31.02			7 1.00 47.22	
ATOM	191 0	LYS A		29.43			3 1.00 42.27	7
ATOM	192 N			29.87			9 1.00 39:86	
atcm	193 C			28.76		-	6 1.00 37.72	
atom	194 C			27.53			o 1.00 39.67	
atom		G2 ILE A		28.43			5 1.00 35.25	
atom		G1 ILE A		27.30	_	8 49.15		
ATOM		D1 ILE A	·	31.0			2 1.00 40.23	6
= TOM	198 C	ILE A			-			

										_
ATOM	199	0	ILE A	25		31.419	44.441	47.198	1.00 38.90	8
MOTA	200	N	PRO A	26		31.762	46.616	47.709	1.00 40.18	7
						31.523	48.051	47.533	1.00 40.58	6
ATOM	201	CD	PRO A						1.00 38.31	6
ATOM	202	CA	PRO A			32.939	46.437	48.558		
MOTA	203	CB	PRO A	26		33.478	47.860	48.688	1.00 37.14	6
	204	CG	PRO A			32.940	48.537	47.458	1.00 38.77	6.
MOTA						32.433	45.903	49.891	1.00 37.32	6
MOTA	205	С	PRO A							
MOTA	206	0	PRO A	26		31.416	46.372	50.412	1.00 32.70	8
ATOM	207	N	ARG A	27		33.134	44.930	50.452	1.00 36.54	7
	208	CA	ARG A			32.685	44.359	51.711	1.00 37.39	6
ATCM							42.952	51.455	1.00 35.29	6
atom	209	CB	ARG A			32.116				
MOTA	210	CG	ARG A	27		31.047	42.956	50.355	1.00 32.69	6
ATOM	211	CD	ARG A	27		30.507	41.573	49.956	1.00 33.87	6
	212	NE	ARG A			29.757	40.909	51.021	1.00 36.16	7
ATOM						30.293	40.132	51.959	1.00 37.11	6
ATOM	213	CZ	ARG A							7
ATOM	214	NH1	ARG A			31.604	39.903	51.976	1.00 34.42	
ATOM	215	NH2	ARG A	3 27		29.516	39.597	52.896	1.00 33.67	7
ATOM	216	С	ARG A	4 27		33.813	44.329	52.732	1.00 36.35	6
		ŏ	ARG 2			33.881	45.188	53.610	1.00 35.77	8
MOTA	217						43.351	52.607	1.00 34.93	7
MOTA	218	N	VAL A			34.703				
ATOM	219	CA	VAL A	۹ 28		35.810	43.230	53.537	1.00 34.00	6
MOTA	220	CB	VAL 2	3 28		36.633	41.954	53.252	1.00 36.21	6
	221	CG1	VAL 2			37.574	41.652	54.424	1.00 33.59	6
ATOM						35.696	40.790	52.992	1.00 37.05	6
MOTA	222	CG2	VAL A							6
ATOM	223	С	VAL A			36.712	44.454	53.423	1.00 31.91	
ATOM	224	0	VAL 2	A 28		37.216	44.959	54.427	1.00 31.45	8
ATOM	225	N	SER A	a 29		36.908	44.936	52.199	1.00 33.12	7
	226	CA	SER 2			37.751	46.111	51.967	1.00 32.03	6
ATOM						38.205	46.181	50.499	1.00 31.77	6
MOTA	227	CB	SER A							8
ATOM	228	OG	SER A			37.113	46.223	49.600	1.00 30.80	
ATOM	229	С	SER A	A 29		37.003	47.380	52.353	1.00 30.16	6
ATOM	230	0	SER A			37.604	48.404	52.650	1.00 28.70	8
	231	N	LEU			35.682	47.310	52.352	1.00 32.43	7
MOTA							48:465	52.745	1.00 34.56	6
ATOM	232	CA	LEU A			34.900				6
ATOM	233	CB	LEU .	A 30		33.463	48.358	52.221	1.00 36.44	
ATOM	234	CG	LEU .	A 30		32.508	49.513	52.560	1.00 36.79	6
ATOM	235		LEU .			32.070	49.446	54.012	1.00 36.73	6
			LEU .			33.202	50.840	52.256	1.00 37.84	6
ATOM	236						48.527	54.262	1.00 34.89	6
ATOM	237	C	LEU .			34.902				8
ATOM	238	0	LEU .	a 30		35.033	49.601	54.841	1.00 37.58	
ATOM	239	N	LEU	A 31		34.761	47.366	54.897	1.00 34.07	7
ATOM	240	CA	LEU .			34.743	47.276	56.350	1.00 34.85	6
	241	CB	LEU			34.768	45.808	56.791	1.00 36.37	6
ATOM							45.471	58.261	1.00 36.04	6
MOTA	242	CG	LEU .			34.459				6
MOTA	243	CD1	LEU	A 31		34.841	44.027	58.532	1.00 35.13	
ATOM	244	CD2	LEU .	A 31		35.228	46.357	59.194	1.00 35.86	. 6
ATOM	245	C	LEU	A 31		35.976	47.994	56.894	1.00 36.43	· 6
	246	ō	LEU			35.855	49.035	57.544	1.00 35.87	8
ATOM						37.157	47.426	56.635	1.00 37.76	7
atom	247	N	LEU						1.00 36.82	6
ATCM	248	CA	LEU			38.420	48.015	57.087		
MOTA	249	CB	LEU	A 32		39.611	47.318	56.418	1.00 36.37	6
ATOM	250	CG	LEU			40.030	45.888	56.774	1.00 39.11	6
						41.117	45.420	55.815	1.00 35:16	6
ATOM	251		LEU					58.214	1.00 37.73	6
ATOM	252	CD2	LEU			40.538	45.830			
ATOM	253	C	LEU	A 32		38.500	49.513	56.780	1.00 34.84	6
ATOM	254	0	LEU	A 32		38.846	50.326	57.644	1.00 36.58	8
	255	N	ARG			38.184	49.877	55.545	1.00 31.37	7
ATOM							51.270	55.150	1.00 32.53	6
ATOM:	256	CA	ARG			38.247			1.00 31.52	6
ATOM	257	CB	ARG			37.927	51.398	53.662		
ATCM	258	CG	ARG	A 33		38.481	52.652	53.042	1.00 35.88	6
ATCM	259	CD	ARG			38.107	52.752	51.581	1.00 43.44	6
		NE	ARG			38.521	51.583	50.811	1.00 48.37	7
ATCM	260						51.469	49.497	1.00 52.27	6
atom	261	CZ	ARG			38.348				7
ATCM	262		. ARG			37.771	52.459	48.823	1.00 51.75	
ATCM	263	NH2	ARG	A 33	i	38.739	50.369	48.858	1.00 51.08	7
ATOM	264	С	ARG			37.274	52.102	55.989	1.00 32.32	6
37 × C+4		-						•		

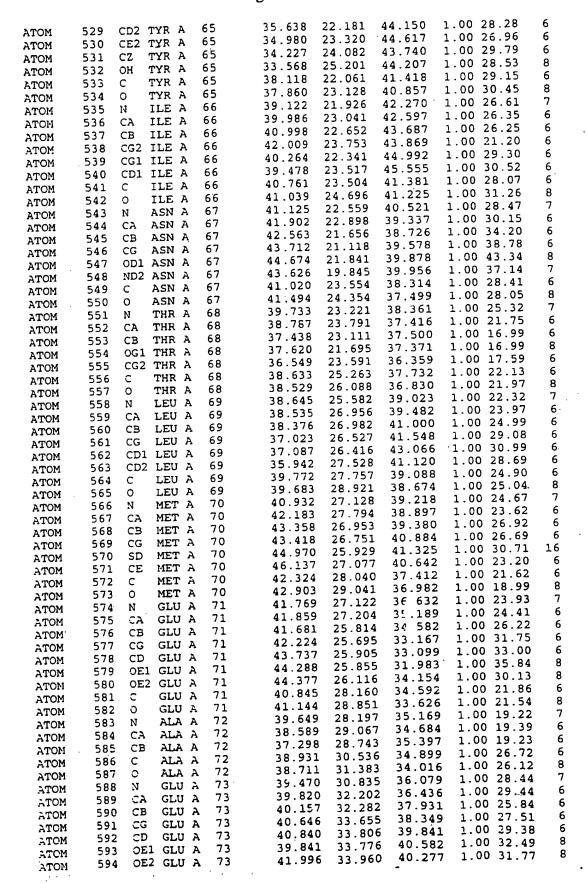
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	265	0 .	ARG A	33		37.	.471	53.	299	56.196	1.00 29.23	8
ATOM	_		PHE A	34		36	. 231	51.		56.484	1.00 32.58	7
MOTA				34			. 216	52.	096	57.304	1.00 32.69	6
ATOM			PHE A				. 952		232	57.359	1.00 31.22	´6
MOTA			PHE A	34			. 838		825	58.183	1.00 28.74	6
ATOM	269		PHE A	34					. 888	57.700	1.00 22.76	6
ATOM	270		PHE A	34			. 085			59.456	1.00 28.09	6
ATOM	271	CD2	PHE A	34			. 551	_	.322		1.00 23.70	6
MOTA	272	CE1	PHE A	34	•		.061		. 441	58.472	1.00 24.59	6
MOTA		CE2	PHE A	34		31	. 524		. 873	60.235		
ATOM			PHE A	34		30	.781	52	.929	59.741	1.00 21.39	6
			PHE A	34		35	.734	52	.319	58.719	1.00 33.45	6
MOTA	_	-	PHE A	34		35	.635		. 425	59.258	1.00 35.49	8
MOTA			LYS A	35		36	.276	51	.264	59.323	1.00 34.52	7
MOTA	278		LYS A	35			.805		.360	60.678	1.00 36.51	6
MOTA			LYS A	35			.118	49	.977	61.235	1.00 36.47	6
MOTA	279		LYS A	35			.912	49	.074	61.343	1.00 40.81	6
MOTA	280			35			.246		.801	62.090	1.00 44.10	6
MOTA	281		LYS A	35			.347		.029	61.402	1.00 47.46	6
ATOM	282		LYS A				.601		.823	61.276	1.00 53.53	7
MOTA	283		LYS A				.054		.222	60.735	1.00 36.61	6
MOTA	284	C ·	LYS A				.352		.824	61.766	1.00 36.78	8
MOTA	285	0	LYS A						.267	59.635	1.00 36.27	7
ATOM	. 286	N	ASP A				794		.090	59.592	1.00 39.71	6
MOTA	287	CA	ASP A				.980		.937	58.239	1.00 44.78	6
ATOM	288	CB	ASP A				1.679		.892	58.075	1.00 47.10	6
MOTA	289	CG	ASP A			41	.863			58.906	1.00 44.02	8
MOTA	290	OD1	ASP A	. 36			. 803		.352	57.106	1.00 48.43	8
ATOM	291	OD2	ASP A	. 36			. 843		.682	59.789	1.00 39.99	6
ATOM	292	С	ASP A		•		.508		.530		1.00 40.76	8
ATOM	293	O	ASP A	36			0.023		.258	60.536	1.00 38.59	7
ATOM	294	N	ALA A	37			3.506		1.919	59.007		6
ATOM	295	CA	ALA A	37			7.939		5.258	59.066		6
ATOM	296	CB	ALA A	37			5.857		5.402	58.000		6
ATOM	297	С	ALA A	37		3 7	7.354		5.549	60.446	1.00 38.34	8
ATOM	298	Ö	ALA A			31	7.391		7.687	60.928	1.00 37.32	7
ATOM	299	N	MET A			- 36	6.809		5.518	61.079	1.00 36.19	
ATOM	300	CA	MET A			3 (6.213		5.674	62.397	1.00 36.80	6
ATOM	301	CB	MET A			3 :	5.141	54	4.598	62.606	1.00 37.38	6
	302	CG	MET A			3:	3.938	54	4.717	61.673	1.00 37.60	6
MOTA	303	SD	MET A			3	2.887		6.165	61.999	1.00 33.61	16
MOTA	304	CE	MET A			3	2.398	5 !	5.824	63.680	1.00 35.60	6
ATOM .	305	c	MET A			3	7.262	5!	5.582	63.502	1.00 35.84	6
ATOM	306	Ö	MET 3			3	6.937	5	5.688	64.692	1.00 34.89	8
MOTA	307	Ŋ	ASN A			3	8.518		5.400	63.100	1.00 33.83	7
MOTA	308	CA.	ASN A			3	9.626	5	5.264	64.044	1.00 34.94	6
ATOM	309	CB	ASN A				9.897	5	6.582	64.775	1.00 32.48	6
ATOM		CG	ASN A				0.213	5	7.717	63.825	1.00 32.34	6
ATOM	310		ASN			4	1.128		7.521	63.009	1.00 31.85	8
MOTA	311		ASN				9.455		8.800	63.924	1.00 30.92	7
ATCM	312						9.253	_	4.183		1.00 36.87	6
MOTA	313	C	ASN				9.403	_	4.357		1.00 36.60	8
MOTA	314	0	ASN LEU				8.752		3.067		1.00 37.48	7.
ATOM	315	N					8.341	_	1.933		1.00 39.66	6
ATOM	316	CA	LEU .				6.863		1.622			6
ATOM	317	CB	LEU .				5.858		2.712	65.476		6
ATOM	. 318	CG	LEU				4.448		2.261			6
ATOM	319		LEU						2.989			6
MOTA	320		LEU .				5.951		0.687			6
ATOM	321	С	LEU				9.184					8
MOTA	322	0	LEU				8.804	_	9.575		-	7
MOTA	323	N	ILE	A 41			10.337		0.889			6
ATOM	324	CA	ILE				11.237		19.790			6
ATOM	325	CB	ILE				0.780	_	19.141		-	6
MOTA	326	CG:					1.017		50.103			6
	327	CG:				4	11.513		17.824			
MOTA	328		1 ILE			4	11.085	5 4	46.71			
ATOM	329	C	ILE			4	12.684	4 5	50.29			
MOTA	330		ILE	-			12.92		51,328	8 <u>6</u> 3.27	7 1.00 46.01	8
MOTA	220	-		·								

ATOM	331	N	ASP A	42		43.646	49.582	64.497	1.00 45.19	7
	332	CA	ASP A	42		45.049	49.982	64.372	1.00 45.62	6
ATOM						45.716	50.090	65.742	1.00 45.17	6
MOTA	333	CB	ASP A	42					1.00 44.43	6
ATOM	334	CG	ASP A	42		44.966	51.005	66.682		
ATOM	335	OD1	ASP A	42		44.731	52.177	66.322	1.00 39.84	8
ATOM	336	OD2	ASP A	42		44.612	50.546	67.787	1.00 48.50	8
	337	C	ASP A	42		45.750	48.915	63.551	1.00 48.47	6
MOTA	-		ASP A	42		45.316	47.757	63.547	1.00 49.85	8
MOTA	338	0					49.288	62.864	1.00 49.24	7
ATOM	339	N	GLU A .			46.830				6
ATOM	340	CA	GLU A	43		47.553	48.325	62.028	1.00 50.79	
MOTA	341	CB	GLU A	43	-	48.820	48.956	61.431	1.00 49.90	6
MOTA	342	CG	GLU A	43		48.544	50.029	60.378	1.00 57.20	6
	343	CD	GLU A	43		49.808	50.537	59.690	1.00 59.56	6
MOTA			GLU A	43		50.517	49.721	59.061	1.00 65.05	8
ATOM	344						51.750	59.772	1.00 57.82	8
MOTA	345		GLU A	43		50.095				
MOTA	346	C	GLU A	43		47.918	47.020	62.733	1.00 49.73	6
ATOM	347	0	GLU A	43		47.813	45.943	62.149	1.00 49.18	8
ATOM	348	N	LYS A	44		48.324	47.118	63.992	1.00 49.40	7
ATOM	349	CA	LYS A	44		48.730	45.949	64.762	1.00 49.09	6
	350	CB	LYS A	44		49.317	46.418	66.093	1.00 52.46	6
ATOM						50.448	47.421	65.899	1.00 55.75	6
MOTA	351	CG	LYS A	44			47.749	67.201	1.00 58.74	6
ATOM	352	CD	LYS A	44		51:167				
MOTA	353	CE	LYS A	44		52.327	48.704	66.949	1.00 58.48	6
ATOM	354	NZ	LYS A	44		53.122	48.968	68.176	1.00 58.95	7
ATOM	355	С	LYS A	44		47.638	44.897	64.994	1.00 47.63	6
ATOM	356	ō	LYS A	44		47.932	43.738	65.290	1.00 45.13	8
	357	N	GLU A	45		46.379	45.298	64.854	1.00 45.25	7
MOTA						45.268	44.374	65.046	1.00 43.09	6
ATOM	358	CA	GLU A	45			45.143	65.514	1.00 41.19	6
ATOM	359	CB	GLU A	45		44.024				6
ATOM-	360	CG	GLU A	45		44.192	45.859	66.844	1.00 36.83	
MOTA	361	CD	GLU A	45		43.003	46.741	67.204	1.00 38.92	6
MOTA	362	OE1	GLU A	45		42.707	47.701	66.447	1.00 37.30	8
ATOM	363		GLU A	45		42.368	46.479	68.253	1.00 36.33	8
	364	C	GLU A	45		44.969	43.660	63.726	1.00 43.04	6
MOTA				45		44.480	42.523	63.699	1.00 45.03	8
ATOM	365	0	GLU A				44.341	62.632	1.00 40.29	7
ATOM	366	N	LEU A	46		45.282			1.00 37.16	6
MOTA	367	CA	LEU A	46		45.042	43.823	61.299		
ATOM	368	CB	LEU A	46		44.910	44.990	60.331	1.00 37.86	6
MOTA	369	CG	LEU A	46		44.822	44.658	58.845	1.00 39.22	6
ATOM	370	CD1	LEU A	46		43.655	43.726	58.563	1.00 40.68	6
ATOM	371	CD2		46		44.673	45.964	58.080	1.00 41.62	6
	372		LEU A	46		46.090	42.860	60.774	1.00 36.54	6
MOTA		C				47.275	43.192	60.698	1.00 39.86	8
ATOM	373	0	LEU A	46		_	41.662	60.406	1.00 33.49	7
MOTA	374	N	ILE A	47		45.646			1.00 30.51	6
MOTA	375	CA	ILE A	47		46.540	40.657	59.844		
ATOM	376	CB	ILE A	47		46.333	39.253	60.491	1.00 34.31	6
ATOM	377	CG2	ILE A	47		47.346	38.262	59.930	1.00 32.16	6
MOTA	378		ILE A	47		46.504	39.328	62.010	1.00 32.65	6
	379		ILE A	47		47.858	39.846	62.448	1.00 38.97	6
MOTA				47		46.196	40.570	58.362	1.00 28.36	6
MOTA	380	C	ILE A				40.342	58.003	1.00 26.11	8
ATOM	381	0	ILE A	47		45.037			1.00 27.77	. 7
ATOM	382	Ŋ	LYS A	48		47.194	40.772	57.504		6
ATOM	383	CA	LYS A	48		46.985	40.713	56.056	1.00 25.80	
ATOM	384	CB	LYS A	48		48.258	41.087	55.308	1.00 23.91	6
ATOM	385	CG	LYS A	48		48.056	41.273	53.811	1.00 24.90	6
			LYS A	48		49.389		53.091	1.00 26.39	6
ATOM	386	CD				49.233		51.679	1.00 27.71	6
ATOM	387	CE	LYS A	48			_	51.696	1.00 32.59	7
MOTA	388	NZ	LYS A	48		48.774			1.00 32.39	6
MOTA	389	C	LYS A	48		46.595		55.654		
ATCM	390	0	LYS A	48		47. 072	38.325	56.235	1.00 27.85	8
ATOM	391	N	SER A	49		45.735	39.183	54.653	1.00 24.73	7
	392	CA	SER A	49		45.299		54.205	1.00 27.36	6
ATOM	393	CB	SER A	49		43.952		53.479	1.00 25.04	6
ATOM				49		42.911		54.373	1.00 26.94	8
ATOM	394	OG	SER A							6
· ATOM	395	С	SER A	49		46.322				8
ATOM	396	0	SER A	49		47.095	37.885	24.012	1.00 31.89	C

_	mov.	397 N	ARG A	50	46.315	35.879		1.00 29.71	7
	TOM	398 CA	ARG A	50	47.211	35.087	52.463	1.00 25.78	6
	TOM TOM	399 CB	ARG A	50	48.249	34.351	53.318	1.00 26.20	6
		400 CG	ARG A	50	47.687	33.204	54.172	1.00 22.71	6
	atom Atom	401 CD	ARG A	50	48.818	32.468	54.890	1.00 22.95	6 7
	ATOM.	402 NE	ARG A	50	48.359	31.385	55.762	1.00 19.20	6
	ATOM	403 CZ	ARG A	50	47.708	30.306	55.345	1.00 16.85	7 .
	TOM	404 NH1		50	47.430	30.151	54.055	1.00 17.77 1.00 14.56	7
	ATOM	405 NH2		50	47.334	29.385	56.223	1.00 14.30	6
	ATOM	406 C	ARG A	50	46.370	34.051	51.723	1.00 25.30	8
	ATOM	407 0	ARG A	50	45.319	33.635	52.206 50.534	1.00 18.92	7
	ATOM	408 N	PRO A	51	46.823	33.628	49.789	1.00 20.50	6
	ATOM	409 CD	PRO A	51 .	48.021	34.038	49.761	1.00 22.69	6
	ATOM	410 CA	PRO A	51	46.086	32.633 32.592	48.451	1.00 21.57	6
	MOTA	411 CB	PRO A	51	46.862 47.503	33.984	48.392	1.00 20.57	6 -
	MOTA	412 CG	PRO A	51	46.153	31.300	50.498	1.00 26.71	6
	MOTA	413 C	PRO A	51	47.071	31.066	51.293	1.00 31.32	8
	MOTA	414 0	PRO A	51	45.176	30.435	50.250	1.00 26.02	7
	MOTA	415 N	ALA A	52 52	45.151	29.121	50.876	1.00 25.76	6
	MOTA	416 CA	ALA A ALA A	52	43.720	28.585	50.933	1.00 21.42	6
	ATOM	417 CB 418 C	ALA A	52	46.013	28.227	50.000	1.00 26.31	6
	ATOM	418 C 419 O	ALA A	52	45.878	28.239	48.780	1.00 30.31	8
	ATOM	419 O	THR A	53	46.909	27.464	50.608	1.00 26.80	7
	ATOM	421 CA		53	47.759	26.578	49.831	1.00 27.52	6
	ATOM ATOM	422 CB		53	48.845	25.975	50.717	1.00 26.27	6 8
	ATOM	423 OG		53	48.255	25.053	51.641	1.00 29.51 1.00 24.66	6
	ATOM	424 CG		53	49.522	27.076	51.502	1.00 24.66	6
	ATOM	425 C	THR A	53	46.908	25.462	49.209 49.634	1.00 21.98	8
	ATOM	426 O	THR A	53	45.778	25.228	49.034	1.00 29.62	7
	MOTA	427 N	LYS À	54	47.455	24.782 23.713	47.507	1.00 32.62	6
	ATOM	428 CA		54	46.739	23.713	46.370	1.00 31.99	6
	MOTA	429 CE		54	47.601 46.985	21.967	45.629	1.00 36.62	6
	MOTA	430 CG	_	54 .	45.733	22.352	44.866	1.00 40.69	.6
	MOTA	431 CI		54 54	46.058			1.00 46.44	6
	MOTA	432 CF		54	46.844			1.00 50.68	7
	MOTA	433 NZ 434 C	LYS A		46.348		48.465	1.00 36.00	6
	MOTA	434 C 435 O	LYS A		45.277			1.00 34.77	8 7
	MOTA MOTA	436 N	GLU A		47.216	22.336		1.00 37.91 1.00 36.96	6
	ATOM	437 C			46.979		50.433		6
	ATOM	438 C	-		48.240		51.281		6
	MOTA	439 C		. 55	48.216				6
	ATOM	440 C	D GLU A		49.552				8
	ATOM	441 0	El GLU A		49.659				8
	ATOM	442 0	E2 GLU A		50,497 45.771				6
	ATOM	443 C	GLU A		44.892			1.00 33.08	8
	MOTA	444 0			45.723			1.00 32.39	7
	ATOM	445 N			44.62			1.00 30.13	6
	ATOM	-	A GLU A		44.82		53.177	1.00 25.28	6
	ATOM		B GLU A G GLU A		46.20		1 53.758		6
	ATOM		D GLU ?		46.42		54.181	1.00 30.74	6
	ATOM		El GLU A		46.07				8
	MOTA		E2 GLU A		46.96	9 26.67			· 6
	MOTA	451 0			43.26	4 23.11			8
	ATOM	453			42.29	9 22.58			7
	ATOM	454 N			43.18	8 23.58			6
	ATOM ATOM		A LEU		41.94	4 23.49	0 50.02		6
	ATOM		B LEU	A 57	42.13		3 48.62		6
	atom		G LEU	a 57	42.40				6
	ATOM		D1 LEU	A 57	42.65				_
	ATOM		CD2 LEU	A 57	41.21			•	
	ATOM		LEU		41.47				8
	ATOM		D LEU		40.28	_			
	ATOM	462	N LEU	A 58	42.44	14 41.14	-		

MOTA	463	CA	LEU A	. 58	42.194	19.718	49.526	1.00 22.44	6
ATOM	464	CB	LEU A		43.434	19.027	48.965	1.00 21.02	6
ATOM	465	CG	LEU A		43.838	19.471	47.558	1.00 22.94	6
MOTA	466		LEU A		45.212	18.908	47.176	1.00 20.35	6
ATOM	467		LEU A		42.755	19.033	46.587	1.00 23.28	6
ATOM	468	C	LEU A	_	41.797	19.054	50.835	1.00 25.20	6
	469	Ö	LEU A		41.456	17.867	50.854	1.00 26.55	8
ATOM	470		LEU A		41.858	19.794	51.938	1.00 25.44	7
MOTA		N	LEU A		41.446	19.212	53.211	1.00 25.24	6
ATOM	471	CA			41.559	20.229	54.350	1.00 24.68	6
ATOM	472	CB	LEU A		42.956	20.229	54.912	1.00 27.05	6 .
MOTA	473	CG	LEU A			21.565	56.001	1.00 24.76	6
ATOM	474	CD1	LEU A		42.912	19.184	55.474	1.00 24.78	6
MOTA	475		LEU A		43.492		53.474	1.00 24.22	6
ATOM	476	C	LEU A			18.807 17.794	53.581	1.00 24.22	8
MOTA	477	0	LEU A		39.548		52.270	1.00 25.00	7
MOTA	478	N	PHE A		39.270	19.615			6
ATOM	479	CA	PHE A		37.859	19.403	52.011		6
ATOM	480	CB	PHE A		37.054	20.560	52.605 52.223	1.00 26.34 1.00 29.37	6
MOTA	481	CG	PHE A		35.600	20.555	52.427	1.00 27.57	6
MOTA	482	CD1	PHE A		34.811	19.422			6
ATOM	483	CD2	PHE A		35.015	21.692	51.661	1.00 27.33	
ATOM	484	CE1	PHE A		33.466	19.419	52.077	1.00 27.00	6
MOTA	485	CE2	PHE A		33.670	21.699	51.306	1.00 28.08	6
ATOM	486	CZ	PHE A		32.893	20.559	51.513	1.00 29.48	6
MOTA	487	C	PHE A		37.506	19.214	50.538	1.00 27.78	6
ATOM	488	0	PHE A		37.022	18.143	50.158	1.00 31.57	8
MOTA	489	N	HIS A		37.734	20.220	49.696	1.00 26.76	7
ATOM	490	CA	HIS A		37.376	20.056	48.287 47.561	1.00 28.84 1.00 27.76	6
ATOM	491	CB	HIS A		37.365	21.405			6
ATOM	492	CG	HIS A		36.385	22.396	48.117	1.00 30.54	6 6
ATOM	493		HIS A		35.056	22.549	47.907	1.00 33.74	7
MOTA	494		HIS A		36.750	23.401	48.987	1.00 34.02	
ATOM	495	CE1	HIS A		35.691	24.135		1.00 32.07	6 7
ATOM	496	NE2	HIS A		34.649	23.638	48.644	1.00 34.10	6
MOTA	497	C	HIS A		38.278	19.056	47.539	1.00 28.38 1.00 25.81	
MOTA	498	0	HIS A		39.287	18.604	48.072		8 7
ATOM	499	N	THR A		37.895	18.705	46.310	1.00 32.88	6
MOTA	500	CA	THR A		38.658	17.749	45.488 44.778	1.00 34.68 1.00 34.36	6
MOTA	501	CB	THR A		37.715	17.415	43.778	1.00 34.81	8
MOTA	502	0G1	THR A		36.942 36.759	16.112	45.778	1.00 34.33	6
ATOM	503	CG2	THR A		39.485	18.454	44.408	1.00 35.60	6
MOTA	504	C	THR A		-	19.418	43.790	1.00 30.85	8
ATOM	505	0	THR A		39.017 40.700	17.958	44.166	1.00 37.38	7
ATOM	506	N	GLU A			18.555	43.165	1.00 40.68	6
MOTA	507	CA	GLU A		41.587 42.759	17.626	42.840	1.00 43.75	6
ATOM	508	CB	GLU A			17.389	43.987	1.00 50.68	6
MOTA	509	CG	GLU A		43.719 45.026	16.760	43.529	1.00 55.36	6
MOTA	510	CD			45.789	17.441	42.808	1.00 53.03	8
MOTA	511		GLU A			15.585	43.883		8
ATOM	512		GLU A		45.285		41.860	1.00 39.26	6
ATOM	513	C	GLU A		40.894	18.939 20.116	41.535	1.00 33.20	8
ATOM	514	0	GLU A		40.771	17.948	41.102	1.00 37.07	. 7
ATOM	515	N	ASP A		40.453			1.00 37.07	6
ATOM	516	CA	ASP A		39.782	18.224	39.845 39.426	1.00 30.38	6
MOTA	517	CB	ASP A		38.957	17.000		1.00 42.19	6
MOTA	518	CG	ASP A		38.037	16.501	40.533		8
MOTA	519	OD1			37.039	17.193	40.851	1.00 47.95	8
ATOM	520		ASP A		38.325	15.413	41.091	1.00 50.07	
MOTA	521	C	ASP A		38.908	19.480	39.906	1.00 33.40	6
ATCM	522	0	ASP A		38.927	20.293	38.986	1.00 33.64	8
ATOM	523	N	TYR A		38.156	19.641	40.990	1.00 30.57	7
ATOM	524	CA	TYR A		37.286	20.806	41.157	1.00 29.65	6 6
ATOM	525	CB	TYR A		36.300	20.560	42.316	1.00 30.16	0
ATOM	526	CG	TYR A	4 65	35.557	21.790	42.810	1.00 28.49	6
ATOM	527		TYR A		34.791	22.572	41.944	1.00 30.25	6
2004	528	CEl	TYR A	4 65	34.126	23.715	42.399	1.00 28.36	6

Figure 17-9



ATOM	595	С	GLU A	73		40.946	32.840	35.615	1.00 31.83	6
ATOM	596	ō	GLU A	73		40.859	34.024	35.259	1.00 33.52	8
MOTA	597	N	ARG A	74		41.992	32.071	35.309	1.00 31.45	.7
ATOM	598	CA	ARG A	74		43.128	32.611	34.557	1.00 30.65	6
	599	CB	ARG A	74		44.405	31.826	34.874	1.00 32.12	6
ATOM			ARG A	74		44.514	30.467	34.205	1.00 31.42	6
ATOM	600	CG		74		45.702	29.714	34.754	1.00 30.73	6
MOTA	601	CD .	ARG A			46.041	28.561	33.933	1.00 34.18	7
MOTA	602	NE	ARG A	74			28.634	32.748	1.00 35.55	6
ATOM	603	CZ	ARG A	74		46.646	29.818	32.740	1.00 29.64	7
MOTA	604		ARG A	74		46.989		32.232	1.00 23.04	7
MOTA	605	NH2	ARG A	74	•	46.906	27.514		1.00 34.07	6
MOTA	606	C	ARG A	74		42.894	32.623	33.051		
MOTA	607	0	ARG A	74		43.431	33.465	32.338	1.00 24.38	8
MOTA	608	N	CYS A	75		42.107	31.673	32.566	1.00 28.32	7 6
MOTA	609	CA	CYS A	75	•	41.796	31.619	31.148	1.00 32.42	
MOTA	610	CB	CYS A	75		41.687	30.167	30.682	1.00 32.91	6
MOTA	611	SG	CYS A	75		43.281	29.296	30.777	1.00 37.09	16
ATOM	612	С	CYS A	75		40.489	32.382	30.956	1.00 33.10	6
MOTA	613	0	CYS A	75		40.029	32.598	29.834	1.00 30.74	8
MOTA	614	N	GLN A	76		39.914	32.787	32.088	1.00 34.42	7
MOTA	61,5	CA	GLN A	76		38.691	33.575	32.144	1.00 33.20	6
MOTA	616	CB	GLN A	76		38.986	34.962	31.578	1.00 32.09	6
MOTA	617	CG	GLN A	76		38.089	36.064	32.094	1.00 39.46	6
ATOM	618	CD	GLN A	76		38.479	36.541	33.480	1.00 41.47	6
MOTA	619		GLN A	76		38.574	35.755	34.426	1.00 45.02	8
ATOM	620	NE2	GLN A	76		38.703	37.846	33.606	1.00 42.22	7
ATOM	621	C	GLN A	76		37.561	32.920	31.358	1.00 33.20	6
ATOM	622	0	GLN A	76		36.732	33.598	30.760	1.00 34.19	8
ATOM	623	N	CYS A	77		37.522	31.598	31.370	1.00 31.81	7
ATOM	624	CA	CYS A	77		36.511	30.862	30.627	1.00 31.47	6
MOTA	625	CB	CYS A	7 7		37.187	30.181	29.454	1.00 30.25	6
ATOM	626	SG	CYS A	77		38.479	29.071	30.044	1.00 33.94	16
ATOM	627	С	CYS A	77		35.851	29.795	31.498	1.00 31.97	6
ATOM	628	0	CYS A	77		36.335	29.503	32.590	1.00 35.15	8
MOTA	629	N	VAL A	78		34.750	29.216	31.018	1.00 30.78	7
ATOM	630	CA	VAL A	78		34.069	28.139	31.747	1.00 30.55	6
ATOM	631	CB	VAL A	78		32.539	28.287	31.720	1.00 30.06	6
ATOM	632	CG1	VAL A	78		31.881	27.030	32.293	1.00 28.23	6
ATOM	633	CG2	VAL A	78		32.129	29.503	32.526	1.00 30.67	6
ATOM	634	С	VAL A	78		34.420	26.794	31.110	1.00 29.80	6
ATOM	635	0	VAL A	78		33.851	26.422	30.077	1.00 29.65	8
ATOM	636	13	PRO A	79		35.337	26.033	31.739	1.00 28.55	7
ATOM	637	CD	PRO A	79		35.985	26.335	33.025	1.00 24.39	6
ATOM	638	CA	PRO A	79		35.793	24.724	31.261	1.00 28.89	6
MOTA	639	CB	PRO A	79		36.622	24.218	32.434	1.00 24.49	6
ATOM	6 `0	CG	PRO A	79		37.239	25.500	32.922	1.00 25.68	6
ATOM	61	С	PRO A	79		34.668	23.776	30.881	1.00 30.13	6
MOTA	6-2	0	PRO A	79		33.697	23.624	31.615	1.00 30.87	8
ATOM	643	N	LYS A	80		34.796	23.136	29.727	1.00 33.44	7
MOTA	644	CA	LYS A	80		33.758	22.216	29.303	1.00 38.52	6
MOTA	645	CB	LYS A	80		34.202	21.421	28.076	1.00 45.18	6
ATOM	646	CG	LYS A	80		35.450	20.589	28.278	1.00 55.18	6
ATOM	647	CD	LYS A	80		35.788	19.827	27.000	1.00 60.80	6
ATOM	. 648	CE	LYS A	80		37.035	18.976	27.168	1.00 64.25	6
ATOM	649	NZ	LYS A	80		37.367	18.252	25.911	1.00 68.95	7
ATOM	650	C	LYS A	80		33.411	21.267	30.443	1.00 36.56	6
ATOM	651	ō	LYS A	80		34.293	20.775	31.164	1.00 31.61	8
	652	N	GLY A	81		32.112	21.035	30.602	1.00 32.57	7
ATOM		CA	GLY A	81		31.634	20.155	31.648	1.00 29.81	6
ATOM	653 654	C	GLY A	31		31.477	20.884	32.965	1.00 28.30	6
ATOM	654 655			31		30.544	20.612	33.723	1.00 25.49	8
ATOM	655	0	GLY A	82		32.380	21.830	33:218	1.00 25.99	7
MOTA	656	N	ALA A	82		32.384	22.602	34.458	1.00 26.72	6
MOTA	657	CA CB	ALA A	82		33.485	23.674	34.406	1.00 22.64	6
ATOM	558 650					31.066	23.245	34.886	1.00 27.84	6
MOTA	659	C	ALA A	82		30.729	23.224	36.068	1.00 30.00	8
atom	660	0	ALA A	. 82		30.129	23.229	-	2.00 30.00	•

									_
		_		0.3	30.310	23.811	33.951	1.00 31.15	7
ATOM			ARG A	83		24.462	34.345	1.00 32.50	6
ATOM	662 (CA .	ARG A	83	29.071				6
			ARG A	83	28.285	24.941	33.127	1.00 37.19	
ATOM					27.439	26.189	33.408	1.00 42.23	6
ATOM	664	CG .	ARG A	83			34.585	1.00 48.02	6
ATOM	665	CD .	ARG A	83	26.480	26.020			7
			ARG A	83	25.904	27.303	34.996	1.00 53.00	
ATOM-	-				25.046	27.460	36.005	1.00 56.84	6
ATOM	667	CZ .	ARG A	83			36.724	1.00 53.05	7 .
ATOM	668	NHl	ARG A	83	24.649	26.413		1.00 55.05	
			ARG A	83	24.588	28.672	36.304	1.00 58.03	7
ATOM .						23.531	35.189	1.00 31.50	5
ATOM	670	c.	ARG A	83	28.208			1.00 29.62	8
	671	0	ARG A	83	28.056	23.749	36.386		
ATOM	_		GLU A	84	27.648	22.491	34.581	1.00 33.06	7
ATOM						21.568	35.343	1.00 35.40	6
ATOM	673	CA	GLU A	84	26.819			1.00 37.35	6
ATOM	674	CB	GLU A	84	26.112	20.562	34.417		
	-		GLU A	84	26.989	19.684	33.496	1.00 40.01	6
ATOM	_				27.551	20.418	32.267	1.00 44.49	6 -
ATOM		CD	GLU A	84				1.00 41.12	8
ATOM	677	OE1	GLU A	84	27.925	19.723	31.292		
			GLU A	84	27.636	21.671	32.270	1.00 41.01	8
MOTA					27.617	20.823	36.417	1.00 35.42	6
ATOM	679	C	GLU A	84			37.594	1.00 34.66	8
ATOM	680	0	GLU A	84	27.246	20.816			7
	681	N	LYS A	85	28.727	20.226	36.002	1.00 35.21	
MOTA				85	29.604	19.450	36.878	1.00 37.93	6
ATOM	682	CA	LYS A				36.076	1.00 40.61	6
ATOM	683	C3	LYS A	85	30.841				6
	684	CG	LYS A	85	31.739	17.977	36.706	1.00 42.63	
MOTA				85	31.038	16.640	36.872	1.00 45.48	6
ATOM	685	CD	LYS A				37.078	1.00 45.60	6
ATOM	686	CE	LYS A	85	32.054			1.00 46.16	7
	687	NZ	LYS A	85	33.032	15.833	38.154		
MOTA				85	30.032	20.159	38.175	1.00 37.56	6
ATOM	688	C	LYS A		30.161		39.222	1.00 38.40	8
ATOM	689	0	LYS A	85	_		38.116	1.00 35.60	7
ATOM	690	N	TYR A	86	30.254				6
		CA	TYR A	86	30.671	. 22.216	39.307	1.00 32.67	
ATOM	691				32.151		39.200	1.00 32.09	6
ATOM	692	CB	TYR A				38.995	1.00 33.63	6
MOTA	693	CG	TYR A	86	33.065			1.00 32.12	6
	694	CD1	TYR A	86	33.120	20.393	39.932	1.00 32.12	
MOTA					33.918	3 19.266	39.723	1.00 33.59	6
ATOM	695	CE1			33.839		37.841	1.00 33.82	6
ATOM	696	CD2	TYR A					1.00 34.55	6
ATOM	697	CE2	TYR A	. 86	34.645				6
	698	CZ	TYR A	. 86	34.67	5 19.162	38.566	1.00 32.38	
ATOM					35.43		38.336	1.00 29.17	8
ATOM	699	OH	TYR A					1.00 30.21	6
ATOM	700	С	TYR A	. 86	29.83		_	1.00 29.12	8
ATOM	701	0	TYR A	. 86	30.19		· · ·	1.00 25.12	7
		N	ASN A		28.71	2 23.594	38.893	1.00 29.44	
ATOM	702				27.79		39.086	1.00 28.58	6
ATOM	703	CA	ASN A					1.00 25.63	6
ATOM	704	CB	ASN A	87	27.15				6
	705	CG	ASN A	87	25.87	1 25.428	40.596		
ATOM			ASN A		25.27	5 25.477	41.672	1.00 71.32	8
ATOM	706							1.00 .8.35	7
ATOM	707	ND2	ASN A	87	25.43			1.00 10.35	6
	708	С	ASN A		28.58		38.963		
ATOM			ASN A		28.31			1.00 32.07	8
ATOM	709	0			29.54			1.00 32.05	7
ATOM	710	N	ILE A			·			6
ATOM	711	CA	ILE A	88	30.40				6
	712	CE	ILE A		31.89	4 26.734			
ATOM					32.75		37.201	1.00 37.80	6
ATOM	713	CG2							6
ATOM	714	CG1	L ILE A	88	32.35				6
	715	CD			32.35				
MOTA					30.08		7 36.482	1.00 32.28	6
ATOM	716	С	ILE A		29.70	-			8
ATCM	717	0	ILE A						7
	718	N	GLY A	a 89	30.23				6
ATOM		CA.	GLY :		29.99	4 29.91	5 35.207		
ATOM	719				28.69			3 1.00 32.17	6
ATOM	720	C	GLY						8
ATOM	721	O	GLY .	A 69	28.62	8 31.67			7
	722	N	GLY .		27.67				
ATOM					26.38	30.93	7 35.75	6 1.00 32.92	5
ATOM	723	CA			26.3				6
ATOM	. 724	С	GLY						
ATOM	725	0	GLY	90 ג	27.30				_
		N	TYR		25.1	14 32.88	2 36.50	4 1.00 33.88	
atom	726	7.4	* * 1		_		-		

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MOTA	727	CA	TYR A	91	24.924	34.146	37.206	1.00 35.76	6
				91	23.465	34.589	37.058	1.00 38.10	6
ATOM	728	CB	TYR A						
MOTA	729	CG	TYR A	91	23.089	35.733	37.990	1.00 42.40	6
ATOM	730	CD1	TYR A	91	23.417	37.057	37.688	1.00 43.57	6
			TYR A	91	23.105	38.106	38.577	1.00 42.44	6
MOTA	731	CE1							
ATOM	732	CD2	TYR A	91	22.444	35.484	39.205	1.00 44.07	6
ATOM	733	CE2	TYR A	91	22.132	36.526	40.097	1.00 42.67	6
			TYR A	91	22.462	37.825	39.775	1.00 42.41	6
MOTA	734	ÇZ							
MOTA	735	OH	TYR A	91	22.130	38.835	40.646	1.00 43.69	8
ATOM	736	С	TYR A	91	25.242	34.082	38.701	1.00 34.15	6
			TYR A	91	25.821	35.014	39.266	1.00 29.52	8
MOTA	737	0							
ATOM	738	N	GLU A	92	24.837	32.986	39.333	1.00 34.78	7
MOTA	739	CA	GLU A	92	25.024	32.797	40.767	1.00 38.46	6
	740	CB	GLU A	92	24.233	31.564	41.211	1.00 43.99	6
ATOM							42.700	1.00 52.10	6
MOTA	741	CG	GLU A	92	23.932	31.489			
MOTA	742	CD	GLU A	92	23.294	30.161	43.097	1.00 58.00	6
ATOM	743	OE1	GLU A	92	24.001	29.126	43.058	1.00 60.63	8
		OE2		92	22.087	30.149	43.434	1.00 59.58	8
ATOM	744							1.00 36.42	6
ATOM	745	C	GLU A	92	26.492	32.669	41.208		
ATOM	746	0	GLU A	92	26.902	33.287	42.193	1.00 32.92	8
	747	N	ASN A	93	27.280	31.883	40.473	1.00 34.12	7
MOTA					28.693	31.671	40.808	1.00 33.24	6
ATOM	748	CA	ASN A	93					
ATOM	749	CB	ASN A	93	28.871	30.259	41.364	1.00 28.52	6
ATOM	750	CG	ASN A	93	27.734	29.859	42.299	1.00 27.45	6
	751		ASN A	93	27.547	30.457	43.355	1.00 21.76	8
ATOM							41.895	1.00 21.79	7
MOTA	752.	ND2	ASN A	93	26.956	28.853			
ATOM	753	С	ASN A	93	29.529	31.843	39.535	1.00 35.04	6
ATOM	754	0	ASN A	93	30.160	30.898	39.059	1.00 33.81	8
	755		PRO A	94	29.583	33.081	39.010	1.00 36.19	7
ATOM		N					39.690	1.00 34.62	6
MOTA	756	CD	PRO A	94	28.970	34.231			
ATOM .	757	CA	PRO A	94	30.274	33.560	37.808	1.00 34.80	6
ATOM	758	CB	PRO A	94	29.924	35.0 5 0	37.791	1.00 33.94	6
	759	CG	PRO A	94	28.619	35.095	38.516	1.00 36.13	6
ATOM							37.733	1.00 34.63	6
ATOM	760	C	PRO A	94	. 31.775	33.379			
ATOM	761	0	PRO A	94	32.443	33.103	38.730	1.00 34.72	8
ATOM	762	N	VAL A	95	32.299	33.556	36.526	1.00 33.57	7
	763	CA	VAL A	95	33.735	33.499	36.307	1.00 30.31	6
MOTA						33.171	34.841	1.00 29.88	6
MOTA	764	CB	VAL A	95	34.085				
MOTA	765	CG1	VAL A	95	35.561	33.453	34.574	1.00 29.53	6
MOTA	766	CG2	VAL A	95	33.795	31.713	34.563	1.00 28.05	6
ATOM	767	С	VAL A		34.195	34.910	36.624	1.00 29.86	6
					33.524	35.879	36.272	1.00 29.07	8
MOTA	768	0	VAL A						7
ATOM	769	N	SER A		35.318	35.019	37.317	1.00 30.89	
ATOM	770	CA	SER A	96	35.889	36.310	37.68 7	1.00 32.27	6
ATOM	771	CB	SER A		34.885	37.145	38.501	1.00 30.16	6
					34.600	36.545	39.756	1.00 26.77	8
ATCM	772	OG	SER A						6
ATOM	773	С	SER A	96	37.111	35.993	38.537	1.00 32.96	-
ATOM	774	0	SER A	96	37.603	34.865	38.511	1.00 33.77	8
	775	N	TYR A		37.609	36.973	39.282	1.00 32.66	7
ATOM						36.712	40.132	1.00 31.95	6
atom	776	CA	TYR A		38.753				
ATOM	777	CB	TYR A	97	39.838	37.766	39.923	1.00 31.81	6
ATCM	778	CG	TYR A	97	40.416	37.729	38.525	1.00 30.39	6
	779		TYR A		39.820	38.434	37.479	1.00 30.63	6
ATOM							36.178	1.00 28.49	6
MOTA	780	CE1			40.327	38.358			~
ATOM	781	CD2	TYR A	. 97	41.536	36.945	38.236	1.00 28.43	6
ATOM	782	CE2	TYR A	. 97	42.046	36.858	36.942	1.00 24.73	6
					41.437	37.565	35.919	1.00 27.27	6
MOTA	783	CZ	TYR A						8
ATOM	784	ОН	TYR A	. 97	41.915	37.455	34.633	1.00 26.70	
ATOM	785	С	TYR A		38.350	36.618	41.596	1.00 31.10	6
	786	ō	TYR A		39.178	36.735	42.495	1.00 33.01	8
ATOM							41.818	1.00 31.11	7
MCTA	787	N	ALA A		37.059	36.398			5
ATOM	738	CA	ALA A	. 98	36.510	36.241	43.160	1.00 30.06	
ATOM	⁻⁸⁹	CB	ALA A	98	35.141	36.920	43.256	1.00 27.71	6
	-90	c	ALA A		36.350	34.736	43.357	1.00 31.24	6
ATCM						34.238	44.487	1.00 29.66	8
ATOM	791	0	ALA A		36.335				7
ATCM	792	N	MET A	99	36.249	34.030	42.230	1.00 29.50	,

MOTA MOTA			ET A	99 99	-	048 774	32.589 32.123	42.207 40.778	1.00 2	0.48	6
ATOM			ET A	99		942	32.265	39.822	1.00 2		6 16
ATOM			ET A	99		426	31.939	38.126 38.347	1.00 2		6
MOTA	-		ET A	99		629	30.273 31.800	42.783	1.00 3		6
ATOM		_	ET A			. 199 . 993	30.757	43.406	1.00 3		8
MOTA			IET A PHE A			417	32.274	42.569	1.00 3	12.09	7
ATOM			HE A		39	. 554	31.557	43.114	1.00 3		6
ATOM	_		HE A			.322	30.817	42.029	1.00 3		6
ATOM ATOM			HE A			.434	29.979	42.578	1.00 4		6
ATOM	804	CD1 E	HE A	100		, 152	28.862	43.364	1.00 4		6 6
MOTA		CD2 F				.768 .185	30.339 28.115	42.372 43.941	1.00 4		6
MOTA	-	CE1 F	PHE A			.808	29.600	42.944	1.00		6
MOTA	807 808		PHE A			.517	28.487	43.729	1.00	39.89	6
MOTA MOTA	809			100		.519	32.438	43.895	1.00		6
ATOM	810	0 1	PHE A	100		.706	32.231	45.088	1.00		8 7
ATOM	811			101		.137	33.415	43.245 43.969	1.00		6
MOTA	812			101		.063 .623	34.261 35.378	43.909	1.00		6
ATOM	813	CB '	THR A	101 101		.441	34.795	42.052	1.00		8
ATOM	814 815			101		.468	36.335	43.876	1.00		6
ATOM ATOM	816			101	41	.408	34.860	45.205	1.00		6
ATOM	817	0 '	THR A	101		.988	34.845	46.282	1.00		8 7
ATOM	818	.N	GLY A	102		.197	35.377	45.068 46.231		21.79	6
MOTA	819		GLY A	102		.533	35.947 34.833	47.153		23.03	6
MOTA	820	C	GLY A	A 102 A 102		.209	34.909	48.378	1.00	20.41	8
ATOM	821 822			A 103		.512	33.792	46.544		22.59	7
ATOM ATOM	823			A 103	38	3.028	32.640	47.276		26.51	6 6
ATOM	824	СЗ	SER A	A 103		.454	31.598	46.314		28.10	8
MOTA	825			A 103		3.314	32.099 32.040	45.639 48.032		27.73	6
MOTA	826		SER	A 103 A 103		0.019	31.544	49.144	1.00	30.61	8
MOTA MOTA	827 828	0 0	SER A	A 104		364	32.080	47.410		28.76	7
ATOM	829	CA		A 104		1.590	31.552	48.008	1.00	28.55 28.74	6 6
ATOM	830	CB		A 104		2.769	31.683	47.039 45.804		35.04	8
ATOM	831	OG	SER .	A 104		2.501 1.870	31.044 32.401	49.226	1.00	25.67	6
MOTA	832 833	С 0	SEK .	A 104 A 104		2.026	31.897	50.338		25.17	8
ATOM ATOM	834	K		A 105		1.909				23.91	7
ATOM	835	CÀ	LEU	A 105 .		2.163	34.698			23.01 23.57	6 6
ATOM	836	CB		A 105		2.049				26.30	6
MOTA	837	CG	LEU	A 105		3.158 4.502			1.00	22.38	6
MOTA	838	CD1	PEO	A 105 A 105		2.823		48.984	1.00	27.36	6
ATOM ATOM	839 840	C	LEU	A 105	4	1.187	34.559	51.182	1.00	23.48	. 6
ATOM	841	õ		A 105		1.604				21.60 25.32	8 7
ATOM	842	N		A 106		9.887				26.04	
ATOM	843	CA		A 106		8.884 7.471			_	24.28	6
ATOM	844	СЗ		A 106 A 106		9.088			1.00	25.76	6
MOTA	845 846	0	ALA	A 106		8.953	33.186	54.015		22.75	
MOTA MOTA	847	N	THR	A 107	3	9.410	32.05			25.65	
MOTA	848	CA	THR	A 107		9.620				25.54 21.92	
MOTA	849	CB		A 107		9.706				26.40	_
ATOM	850	OG1	THR	A 107		8.559 9.742			7 1.00	17.36	6
ATOM	851	CG2 C		A 107 A 107		0.90		53.583	3 1.00	28.16	5 6
ATCM ATCM	852 853	0	THR	A 107		0.90	30.25	4 54.72		28:07	
ATOM ATOM	854	N	GLY	A 108		1.99				28.51 28.3	-
ATCM	855	CA	GLY	A 108		3.24				30.2	
ATCM	856	Ç .	GLY	A 108		3 . 02° 13 . 50°				32.9	8
ATCM	857	C N	GLY	A 108 A 109		2.28				24.8	_
ATOM	958	N	>EK	7 100	•			•			

Figure 17-14

				•	40	000	22 010	56.119	1.00 2	24 86	6
ATOM	859	CA	SER A 10			. 002	33.810				
ATOM	860	CB	SER A 10	9	41.	. 222	35.066	55.727	1.00 2	24./4	6
		OG	SER A 10		41	.992	35.898	54.872	1.00 2	21.07	8
ATOM	861							57.173	1.00		6
MOTA	862	С	SER A 10	9	41	. 240	32.996				
MOTA	863	0	SER A 10	9	41.	424	33.214	58.377	1.00	30.92	8
						389	32.064	56.744	1.00	23.91	7
MOTA	864	N	THR A 11								
ATOM	865	CA	THR A 11	0	39.	. 676	31.259	57.721	1.00		6
_	866	CB	THR A 11	O	38	641	30.290	57.074	1.00	29.65	6
MOTA							31.016	56.669	1.00		8
MOTA	867	OG1	THR A 11			. 469					
MOTA	868	CG2	THR A 11	.0	38	. 228	29.205	58.067	1.00	29.00	6
	869	Ċ	THR A 11	0	40	.712	30.449	58.478	1.00	24.34	6
MOTA								59.699	1.00		8
ATOM	870	0	THR A 11			.615	30.282				
ATOM	871	N	VAL A 11	.1	41	.715	29.954	57.764		23.01	7
	872	CA	VAL A 11		42	.759	29.173	58.416	1.00	24.13	6
ATOM								57.391		25.77	6
ATOM	873	CB	VAL A 11			. 695	28.495				
MOTA	874	CG1	VAL A 11	. 1	44	.845	27.773	58.121		22.51	6
	875		VAL A 11		42	.888	27.502	56.534	1.00	22.67	6
ATOM							30.071	59.329		23.14	· 6
MOTA	876	C	VAL A 11			.576					
ATOM	877	0	VAL A 11	.1	43	.720	29.793	60.518		24.11	8
	878	N	GLN A 11		44	.101	31.156	58.772	1.00	24.94	7
MOTA							32.100	59.554		25.12	6
MOTA	879	CA	GLN A 11			. 895					
ATOM	880	CB	GLN A 11	.2	45	.082	33.413	58.779		25.14	6
	881	CG	GLN A 11	2	45	.545	33.224	57.330	1.00	28.51	6
MOTA							34.534	56.594		29.13	6
MOTA	882	CD	GLN A 11			.789					
MOTA	883	OE1	GLN A 11	.2	46	.779	35.219	56.837	1.00	31.22	8
	884	NE2			44	.877	34.890	55.694	1.00	29.31	7
MOTA						.107	32.362	60.827	1 00	24.62	6
ATOM	885	C	GLN A 11								
ATOM	886	0	GLN A 11	12	44	.647	32.311	61.939		21.10	8
-	887	N	ALA A 11	3	42	.813	32.622	60.644	1.00	24.41	7
ATOM							32.904	61.751		23.33	6
ATOM	888	CA	ALA A 11			.914					
MOTA	889	CB	ALA A 11	13	40	.516	33.183	61.224		19.80	6
	890	С	ALA A 11		41	.901	31.733	62.729	1.00	25.34	6
MOTA						.925	31.930	63.946	1 00	27.52	8
MOTA	891	0	ALA A 13								7
ATOM	892	N	ILE A 13	14	41	. 859	30.509	62.211		24.39	
ATOM	893	ĊA	ILE A 11	Ľ 4	41	.867	29.356	63.106	1.00	24.49	6
						.524	28.042	62.371	1.00	23.46	6
MOTA	894	CB	ILE A 11								6
ATOM	895	CG2	ILE A 11	14	41	.902	26.855	63.227		18.97	
ATOM	896	CG1	ILE A 11	1.4	40	.030	28.015	62.034	1.00	21.17	6
						.598	26.791	61.239	1.00	22.51	6
ATOM	897	CD1						63.757		24.32	6
ATOM	898	С	ILE A 11	14		.230	29.227				
MOTA	899	0	ILE A 13	14	43	.328	28.817	64.907		24.74	8
	900	N	GLU A 1		44	.280	29.580	63.019	1.00	26.58	7
ATOM							29.518	63.551		25.89	6
MOTA	901	CA	GLU A 1			.638					
MOTA	902	CB	GLU A 1	15	46	.639	29.992	62.508		22.63	6
	903	CG	GLU A 1		46	.554	29.264	61.192	1.00	20.39	6
ATOM							29.670	60.244	1 00	21.39	6
ATOM	904	CD	GLU A 13			.668					8
ATOM	905	OE1	GLU A 1	15		.848	30.887	60.016		19.60	
ATOM	906	OE2	GLU A 1	15	18	.362	28.769	59.722	1.00	22.53	8
						.724	30.422	64.774	1 00	27.56	6
ATOM	907	С	GLU A 1								8
ATOM	908	0	GLU A 1	15	46	.173	30.006	65.837		25.98	
ATOM	909	N	GLU A 1	16	45	.267	31.660	64.615	1.00	31.19	7
						.282	32.631	65.705	1.00	35.80	6
MOTA	910	CA	GLU A 1								6
ATOM	911	CB	GLU A 1	16	44	.676	33.959	65.237		36.91	
MOTA	912	CG	GLU A 1	16	45	.434	34.605	64.069	1.00	41.14	6
						.872	34.982	64.420	1.00	43.09	6
MOTA	913	CD	GLU A 1								
MOTA	914	OE1	GLU A 1	16	47	.072	35.886	65.267		43.42	8
ATOM	915		GLU A 1		47	.802	34.369	63.849	1.00	41.76	8
						.543	32.131	66.947	1.00	35.11	6
ATOM	916	С	GLU A 1							37.26	8
ATOM	917	0	GLU A 1	16	45	5.054	32.228	68.061			-
	918	N	PHE A 1		43	3.343	31.598	66.761	1.00	34.30	7
ATOM						2.577	31.096	67.893	1.00	34.44	5
ATOM	919	CA	PHE A 1							35.45	6
ATOM	920	CB	PHE A 1	1 7		1.300	30.399	67.415			
ATOM	921	CG	PHE A 1		40	383	29.979	68.533		37.14	6
			PHE A 1			705	30.930	69.290	1.00	35.80	6
ATOM	922									41.05	6
ATOM	923		PHE A 1).196	28.630	68.832			
ATOM	924	CE	PHE A 1	17	38	3.853	30.549	70.323	1.00	38.08	6
27011	- - -							-			

				•								4 -4	_
20036	925 CI	E2 PHE A	117		39.	338	28.	234	69.874		40		6
ATOM		T DUE !	A 117		38.	668	29.	198	70.617		3 3 6		6
MOTA	926 C					424	30.	094	68.669	1.00	34	. 24	6
ATOM	927 C		A 117					136	69.898	1.00	0 33	.54	8
MCTA	928 0		A 117			490			67.933		0 33		7
MCTA	929 N	LEU A	A 118			.069		194			0 32		6
ATOM-	930 C	A LEU	A 118		44.	.898		158	68.523				
	931 C		A 118		45.	.155	27.	056	67.488		0 30		6 .
ATOM			A 118		43.	900	26.	297	67.038	1.0	0 27	. 87.	6
MCTA	932 C					.244		.232	65.996	1.0	0 20	.81	6
MOTA		D1 LEU				. 259		662	68.257	1.0	0 28	.37	6
ATOM	-	D2 LEU .						696	69.084		0 34		6
MOTA	935 C		À 118			.216			69.708		0 36		8
ATOM	936 0		A 118			.983		.964			0 34	75	7
MOTA	937 N	LYS	A 119 '			.481		. 974	68.843	1.0	0 24	2 7 4	6
MOTA		A LYS	A 119			.679		. 609	69.365		0 34		
			A 119		48	.143	31	.739	68.448		0 33		6
MOTA			A 119		48	.614	31	.270	67.100	1.0	0 37	7.98	6 -
ATOM	-		A 119		49	.111	32	.430	66.263	1.0	0 43	3.40	6
MOTA			A 119			.691	31	.928	64.949		0 46		6
MOTA			A 119			.167		.050	64.092	1.0	0 51	1.48	7
MOTA						.273		.191	70.705	1.0	0 34	4.85	6
ATOM	944 C	LYS	A 119			.112		.465	71.562			8.12	8
MCTA	94,5 C	LYS	A 119					.372	70.869			4.15	7
ATOM	946 N		A 120			.967			72.094			6.25	6
ATOM	947		A 120			.431		.927	71.851			9.02	6
ATOM	948		A 120			.860		.310				G.23	8
ATOM	949	GLY	A 120			.640		.072	72.796				7
MOTA		I ASN	A 121			.619		. 644	70.586			8.48	
MCTA		A ASN	A 121		44	.079	34	.956	70.247			7.47	6
			A 121		44	.928		.624	69.170			9.57	6
ATOM		CG ASN	A 121		46	.340	35	.871	69.622			1.81	6
ATOM		DD1 ASN	A 121		47	.078	34	.938	69.926			7.67	. 8
MOTA			A 121			.727	37	.134	69.675			3.63	7
ATOM			A 121			.637		.893	69.772			6.59	6
MOTA						.037		.818	69.704	1 1.	00 3	4.08	8
ATOM			A 121			.092		.061	69.446			3.53	7
ATOM		N VAL	A 122			720		.166	68.976		00 3	4.77	6
ATOM		CA VAL	A 122					7.064	69.898			8.20	6
ATOM		CB VAL	A 122			9.861		7.096	69.38		00 3	7.55	6
ATOM		CG1 VAL				3.418		5.553	71.34	_		37.77	6.
ATOM	962	CG2 VAL	A 122			9.918		5.781	67.59			1.08	6
MCTA	963	C VAL	A 122			0.731			67.44			34.19	8
ATOM	964		A 122			0.991		7.967	66.58		00 7	31.14	7
MCTA	965	N ALA	A 123			0.451	3:	5.975	65.23			30.26	6
ATOM	966	CA ALA	A 123			0.451		6.476	65.23			32.14	6
ATOM	967	CB ALA	A 123			1.307		5.588	64.32			28.26	6
ATOM		C ALA	A 123			9.038		6.533	64.71			29.28	8
ATOM		O ALA	A 123			8.132		5.924	65.28				7
			A 124		3	8.875		7.276	63.63			28.70	
ATOM			A 124		3'	7.601	3	7.475	62.97	6 1.	.00	28.38	6
ATOM	-	CB PHE	A 124		3	6.920	3	8.713	63.56		.00 2	29.16	6
ATOM		CC PHE	A 124			5.645		9.099	62.87			31.20	6
ATOM	973	CG PHE				4.679		8.139	62.56			32.00	6
YOUN		CDI PRE	, 124		3	5.378		0.435	62.57	9 1.	.00	29.53	6
MOTA	975	CD2 PHE	. A 124			3.463		8.510			.00	30.74	6
ATOM	976	CE1 PHE	A 124			4.165		0.813	61.98			27.45	6
MOTA	977	CE2 PHE	A 124					9.847				28.72	6
ATOM	. 978		A 124			3.207						30.19	6
ATOM	979		A 124			7.880		7.671			00	32.10	
ATOM	980		E A 124			8.427		8.695				32.16	
ATOM	981	N ASN	1 A 125			7.545		6.663					
	982	CA ASN	N A 125		3	7.731		6.728				30.10	
ATOM	983	CB ASN	N A 125		3	8.247	7 3	5.393				32.02	
ATOM	984	CG ASN	N A 125		3	8.281	1 3	5.360	57.19	_		33.79	
ATOM		OD1 ASN	I A 125			8.754	1 3	6.30€	56.5			3185	
ATOM	985	ND2 ASI	J 2 125			7.790		4.268	56:60			30.51	
ATOM	986	14D5 W21	N A 125			6.40		7.083	58.5			29.80	
ATOM	987	C ASI	N A 125			5.620		6.206		79 1		27.24	
ATOM	988	O ASI	N M 140			36.13	5	8.386		51 1		28.25	
ATCM	989	N PRO	D A 126			36.99		39.51	58.8		00	29.22	2 6
ATCM	990	CD PRO	O A 126		-			,,,,,,,,,					

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	003	C 3	PRO A 126	34.909	38.891	57.844	1.00 27.92	6
MOTA	991	CA			40.407	57.856	1.00 29.07	6
MOTA	992	CB	PRO A 126	35.139				
ATOM	993	CG	PRO A 126	36.649	40.520	57.775		6
ATOM	994	С	PRO A 126	34.651	38.339	56.448	1.00 27.54	6
			PRO A 126	33.532	38.402	55.949	1.00 28.66	8
MOTA	995	0				55.820	1.00 26.99	7
MOTA	996	N	ALA A 127	35.687	37.795			
ATOM	997	CA	ALA A 127	35.548	37.244	54.477	1.00 26.54	6
	998	CB	ALA A 127	36.822	37.505	53.684	1.00 22.43	5
MOTA	-			35.225	35.744	54.480	1.00 27.38	6
MOTA	999	C	ALA A 127				1.00 29.04	é
ATOM	1000	0	ALA A 127	35.038	35.140	53.423		
ATOM	1001	N	GLY A 128	35.166	35.142	55.663	.1.00 26.97	7
		CA	GLY A 128	34.874	33.724	55.737	1.00 25.65	6
MOTA	1002			33.389	33.486	55.880	1.00 26.17	6
MOTA	1003	С	GLY A 128				1.00 27.39	8
MOTA	1004	0	GLY A 128	32.600	34.428	55.804		
MOTA	1005	N	GLY A 129	32.998	32.234	56.083	1.00 23.87	7
	1006	CA	GLY A 129	31.588	31.936	56.236	1.00 25.17	5
MOTA				30.847	31.674	54.937	1.00 25.88	6
ATOM	1007	C	GLY A 129			54.848	1.00 25.07	8
MOTA	1008	0	GLY A 129	29.643	31.908			7
MOTA	1009	N	MET A 130	31.566	31.198	53.927	1.00 25.69	
	1010	CA	MET A 130	30.981	30.872	52.622	1.00 26.48	6
MOTA				32.103	30.907	51.567	1.00 28.53	6
ATOM	1011	CB	MET A 130			51.467	1.00 26.54	6
ATOM	1012	CG	MET A 130	32.795	32.288			16
ATOM	1013	SD	MET A 130	34.413	32.366	50.613		
ATOM	1014	CE	MET A 130	34.080	31.512	49.062	1.00 25.85	6
		C	MET A 130	30.355	29.463	52.768	1.00 24.47	5
MOTA	1015				28.502	52.113	1.00 17.67	8
MOTA	1016	0	MET A 130	30.761			1.00 23.28	7
MOTA	1017	N	HIS A 131	29.347	29.389	53.636		
ATOM	1018	CA	HIS A 131	28.647	28.161	54.019	1.00 26.33	5
	1019	CB	HIS A 131	27.685	28.485	55.180	1.00 26.98	6
MOTA				26.663	29.540	54.862	1.00 28.50	5
ATOM	1020	CG	HIS A 131			53.677	1.00 28.65	6
ATOM	1021		HIS A 131	26.225	30.030		_	7
ATOM	1022	ND1	HIS A 131	25.906	30.166	55.831	1.00 33.04	
ATOM	1023	CF1	HIS A 131	25.051	30.995	55.259	1.00 27.75	6
			HIS A 131	25.224	30.932	53.952	1.00 26.97	7
MOTA	1024			27.917	27.284	53.017	1.00 28.44	6
MOTA	1025	C	HIS A 131				1.00 31.15	.3
MOTA	1026	0	HIS A 131	27.434	26.214	53.390		7
MOTA	1027	N	HIS A 132	27.861	27.694	51.756	1.00 30.64	
ATOM	1028	CA	HIS A 132	27.111	26.938	50.746	1.00 28.71	6
		CB	HIS A 132	26.321	27.941	49.890	1.00 27.21	6
ATOM	1029				28.819	50.693	1.00 28.83	6
ATOM	1030	CG	HIS A 132	25.408			1.00 28.92	6
MOTA	1031	CD2	HIS A 132	25.111	30.137	50.578		7
ATOM	1032	ND1	HIS A 132	24.686	28.360	51.773	1.00 31.80	
	1033		HIS A 132	23.981	29.353	52.285	1.00 29.95	6
ATOM				24.222		51.579	1.00 28.21	7
MOTA	1034					49.851	1.00 28.51	6
MOTA	1035	С	HIS A 132	27.889			1.00 23.44	8
ATOM	1036	0	HIS A 132		. 24.375	49.533		
ATOM	1037	N	ALA A 133	29.093	26.379	49.455	1.00 27.94	7
			ALA A 133	29.958	25.386	48.579	1.00 26.99	6
ATOM	1038	CA		31.295		48.392	1.00 21.87	6
MOTA	1039	CB	ALA A 133			49.078	1.00 26.69	6
MOTA	1040	С	ALA A 133	30.199		•		
ATOM	1041	0	ALA A 133	30.703	23.973	50.182	1.00 28.25	8
	1042	N	PHE A 134	29.850		48.255	1.00 26.73	7
MOTA	_			30.046		48.615	1.00 25.04	6
MOTA	1043	CA	PHE A 134				1.00 19.20	6
MOTA	1044	CB	PHE A 134	29.070		47.875		6
ATOM	1045	CG	PHE A 134	27.629		48.100	1.00 15.75	
	1046	CD:		26.929		47.169	1.00 14.83	6
MOTA				26.985		49.273	1.00 14.03	6
MOTA	1047	CD				47.404	1.00 14.84	6
MOTA	1048	CE:		25.614				6
ATOM	1049	CE	2 PHE A 134	25.670		49.519	1.00 12.07	
ATOM	1050	CZ	PHE A 134	24.985	21.949	48.581	1.00 14.59	6
			PHE A 134	31.460		48.319	1.00 29.48	6
atom	1051	C					1.00 33.19	8
ATOM	1052	0	PHE A 134	32.291	26.000		1.00 31.52	7
ATOM	1053	N	LYS A 135	31.713				6
ATOM	1054	CA	LYS A 135	33.012	2 19.427		1.00 29.15	
	1055	CB	LYS A 135	32.923		48.885	1.00 29.45	6
ATCM				34.152				6
MOTE	1056	CG	LYS A 135	24.134				

							15 774	40 221	1.00 29	67	6
ATOM	1057		LYS A			.965	15.734	49.221	1.00 30		6
ATOM	1058	CE.	LYS A	135	.34	.234	15.703	50.716			
MOTA	1059	NZ	LYS A	135	35	. 679	15.973	51.001	1.00 26		7
	1060		LYS A		33	.513	19.516	46.993	1.00 30	. 22	6
MOTA			LYS A			.714	19.672	46.763	1.00 30	. 00	8
ATOM	1061						19.434	46.028	1.00 31		7
ATOM	1062		SER A			.600			1.00 32		6
ATOM	1063	CA	SER A	136		.995	19.489	44.619			
ATOM	1064	CB	SER A	136	33	.038	18.077	44.040	1.00 31		6
	1065		SER A		33	.882	17.241	44.810	1.00 35		8
ATOM			SER A			. 297	20.347	43.727	1.00 33	. 55	6
MOTA	1066					.921	20.031	42.553	1.00 36	.11	8
ATOM	1067		SER A					44.262	1.00 30		7
MOTA	1068		ARG A			.536	21.425				·6
ATOM	1069	CA	ARG A	137	30	. 564	22.272	43.459	1.00 32		
ATOM	1070		ARG A		29	.324	21.554	43.202	1.00 35		6
	1071		ARG A		28	.224	22.458	42.627	1.00 43		6
MOTA			ARG A			.819	21.836	42.751	1.00 48	.28	6
MOTA	1072	CD	ARG A	137		.571	20.767	41.787	1.00 53	. 38	7
MOTA	1073	NE	ARG A					40.538	1.00 55		6
ATOM	1074	CZ	ARG A			.150	20.960		1.00 54		7
ATOM	1075	NH1	ARG A	137		.921	22.185	40.090			
ATOM	1076	NH2	ARG A	137	25	.969	19.922	39.728	1.00 58		7
	1077	C	ARG A		30	.405	23.631	44.113	1.00 30	.24	6
ATOM			ARG A			.380	23.748	45.338	1.00 23	.11	8
MOTA	1078	0				.219	24.653	43.279	1.00 27	. 33	7
ATOM	1079	N	ALA A					43.757	1.00 27		6
MOTA	1080	CA	ALA A			.944	26.000		1.00 27		6
ATOM	1081	CB	ALA A	138		1.149	26.997	42.645			
ATOM	1082	С	ALA A	138	28	1.496	26.003	44.213	1.00 26		6
	1083	Ō	ALA A		27	.747	25.083	43.865	1.00 27		8
MOTA			ASN A			.090	27.021	44.975	1.00 22	.47	7
MOTA	1084	13				5.711	27.063	45.471	1.00 23	.85	6
ATOM	1085	CA	ASN A					46.218	1.00 16		6
MOTA	1086	CB	ASN A			.406	25.738		1.00 14		6
MOTA	1087	CG	ASN A			.040	25.718	46.900			8
MOTA	1088	OD1	ASN A	139	24	1.019	26.084	46.319	1.00 13		
	1089	3 כעוא	ASN A	139	25	5.018	25.249	48.139		0.08	7
MOTA		C	ASN A	179 .	26	5.444	28.277	46.368	1.00 26	5.09	6
ATOM	1090		ASN A			7.239	28.600	47.260	1.00 2	7.50	8
ATOM	1091	0				5.326	28.954	46.114	1.00 2	1.83	7
MOTA	1092	N	GLY A	140				46.916	1.00 2		6
ATOM	1093	CA	GLY A			1.965	30.106		1.00 2		6
ATOM	1094	C	GLY A	140		5.991	31.211	46.890	1.00 2		8
MOTA	1095	0	GLY A	140	20	5.256	31.843	47.910	1.00 2	5.50	
ATOM	1096	N	PHE A	141	20	5.570	31.437	45.717	1.00 2	5.60	7
	1097	CA	PHE A		2	7.582	32.476	45.518	1.00 2		6
MOTA			PHE A			7.204	33.765	46.258	1.00 2		6
MOTA	1098	CB	PRE A	141		5.925	34.391	45.792	1.00 2	8.61	6
MOTA	1099	CC	PHE A			5.352	35.428	46.518	1.00 3		6
ATOM	1100	CDI						44.620	1.00 2		6
ATOM	1101	CD2	PHE A	141		5.312	33.975		1.00 2		6
A OM	1102	CE1	PHE A	141		4.193	36.044	46.087			
A' COM	1103	CE2	PHE A	141	2	4.150	34.583	44.177	1.00 3	1.03	6
	1104	CZ	PHE A	141	2	3.589	35.621	44.912	1.00 3	2.59	6
AICM	_		PHE A	1/1		8.954	32.038	45.991	1.00 2	4.63	6
ATOM	1105	C	PRE A	141		9.938	32.727	45.733	1.00 2	9.72	8
ATOM	1106	0	PHE A				30.897	46.667	1.00 2		7
MOTA	1107	N	CYS A			9.025			1.00 2		6
ATOM	1108	CA	CYS A	142		0.296	30.399		1.00 2	1 31	6
MOTA	1109	CB	CYS A			0.062	_		1.00 2		
	1110	SG	CYS A	142	2	8.943	30.748		1.00 2		16
ATOM			CYS A			1.017		46.326	1.00 2		6
MOTA	1111	c				0.408			1.00 2	2.97	8
ATOM	1112	O	CYS A								7
ATOM	1113	N	TYR A			2.317					6
MOTA	1114	CA	TYR A			3.129					, 6
ATOM	1115	CB	TYR A	143		4.063					
	1116	ÇĞ	TYR A		3	3.377	30.379				6
ATOM						2.969			1.00 2		6
ATOM	1117	CDI				2.365			1.00 2		6
ATOM	1118	CE									6
ATOM	1119	ĆD:				3.154				24 82	6
ATOM	1120	CE				2.544	31.061	_			6
ATOM	1121	CZ	TYR A			2.153					_
	1122	ОН	TYR A		3	1.553	33.24	41.064	1.00	12.35	. 8
ATCM	11	011	• • •		_			-			

			_	2 0 6 0	27 766	46.290	1.00 24.22	6
MOTA	1123	C TYR A 143		3.960	27.766		1.00 24.22	
		O TYR A 143	3	4.266	26.606		1.00 24.58	8
ATOM				4.327	28.329	47.437	1.00 23.83	7
ATOM .	1125	N ILE A 144			27.566	48.425	1.00 20.24	6
ATOM	1126	CA ILE A 144		5.086			1.00 17.27	6
ATOM	1127	CB ILE A 144	3	6.547	27.982	48.453		
		CG2 ILE A 144	3	7.231	27.354	49.662	1.00 11.03	6
MOTA		CG2 The A 144			27.603	47.110	1.00 14.93	6
ATCM	1129	CG1 ILE A 144		7.185			1.00 19.68	6
ATOM	1130	CD1 ILE A 144	3	8.601	28.028	46.946		
		C ILE A 144	3	4.495	27.703	49.815	1.00 21.77	6
MOTA				4.288	28.811	50.318	1.00 21.19	8
MOTA	1132	O ILE A 144				50.424	1.00 23.00	7
MOTA	1133	N ASN A 145		4.212	26.555		1.00 20.92	6 .
	1134	CA ASN A 145	3	3.616	26.508	51.750		
MOTA		CB ASN A 145	3	2.902	25.170	51.935	1.00 17.08	6
MOTA	1135			2.079	25.125	53.203	1.00 21.04	6
MOTA	1136	CG ASN A 145				54.276	1.00 20.97	8
ATOM	1137	OD1 ASN A 145		2.549	25.508			7
	1138	ND2 ASN A 145	3	0.844	24.640	53.093	1.00 20.93	
MOTA		C ASN A 145	2	4.706	26.669	52.806	1.00 19.68	6
MOTA	1139			5.201	25.679	53.351	1.00 20.64	8
MOTA	1140	O ASN A 145				53.100	1.00 16.28	7
MOTA	1141	N ASN A 146		35.079	27.911		1.00 19.34	6
ATOM	1142	CA ASN A 146		36.123	28.143	54.088		
		CB ASN A 146	•	36.428	29.651	54.207	1.00 20.27	6
MOTA	1143			35.292	30.444	54.795	1.00 18.05	6
MOTA	1144	CG ASN A 146				55.999	1.00 25.83	8
MOTA	1145	OD1 ASN A 146		35.079	30.421		1.00 16.04	7
MOTA	1146	ND2 ASN A 146		34.552	31.149	53.948		
		C ASN A 146		35.775	27.504	55.443	1.00 20.48	6
MOTA	1147			36.663	27.027	56.151	1.00 19.88	8
MOTA	1148	C ASN A 146				55.819	1.00 19.38	7
MOTA	1149	N PRO A 147		34.482	27.485		1.00 17.48	6
ATOM	1150	CD PRO A 147		33.312	28.068	55.135	1.00 17.46	
		CA PRO A 147		34.058	26.877	57.087	1.00 22.25	6
ATOM	1151			32.539	27.065	57.057	1.00 20.15	6
ATOM	1152	CB PRO A 147			28.378	56.305	1.00 20.81	6
ATOM	1153	CG PRO-A 147		32.407			1.00 26.89	6
ATOM	1154	C PRO A 147		34.443	25.383	57.188		
		O PRO A 147		35.066	24.954	58.169	1.00 29.10	8
MOTA	1155	0 FRO A 147		34.070	24.596	56.176	1.00 25.88	7
MOTA	1156	N ALA A 148			23.164	56.174	1.00 25.47	6
MOTA	1157	CA ALA A 148		34.372			1.00 21.84	6
ATOM	1158	CB ALA A 148		33.670	22.468	55.009	1.00 21.04	6
	1159	C ALA A 148		35.870	22.916	56.100	1.00 25.94	
MOTA				36.382	21.971	56.701	1.00 27.19	8
MOTA	1160			36.574	23.756	55.349	1.00 26.11	7
MOTA	1161	N VAL A 149				55.233	1.00 24.04	6
MOTA	1162	CA VAL A 149		38.017			1.00 26.16	6
ATOM	1163	CB VAL A 149		38.622	24.663	54.267	1.00 20.10	
	1164	CG1 VAL A 149		40.135	24.476	54.158	1.00 25.36	6
MOTA				37.970		52.886	1.00 26.81	6
MOTA	1165	CG2 VAL A 149					1.00 23.57	6
MOTA	1166	C VAL A 149		38.516			1.00 19.75	8
ATOM	1167	O VAL A 149		39.453		57.122		7
	1168	N GLY A 150		37.850	24.815		1.00 22.20	
MOTA				38.210		58.654	1.00 25.43	6
MOTA	1169	CA GLY A 150						6
ATOM	. 1170	C GLY A 150		38.130				8
MOTA	1171	O GLY A 150		39.112				7
	1172	N ILE A 151		36.959	23.348	59.618	1.00 25.56	
ATOM				36.775		60.457	1.00 28.24	6
ATOM	1173	CA ILE A 151						6
ATOM	1174	CB ILE A 151		35.317				6
MOTA	1175	CG2 ILE A 151		35.251				
				34.394	22.540	61.240	1.00 33.31	6
MOTA	1176	CG1 ILE A 151		34.255	_		1.00 36.83	6
MOTA	1177	CD1 ILE A 151		-				6
ATOM	1178	C ILE A 151		37.723				8
ATOM	1179	0 ILE A 151		38.340				
				37.843	3 20.769	58.778	1.00 29.91	7
MOTA	1180	N GLU A 152		38.704			1.00 32.58	6
MOTA	1181	CA GLU A 152						6
ATCM	1182	CB GLU A 152		38.57				6
	1183	CG GLU A 152		37.26	9 13.848			
ATOM		CD GLU A 152		37.12	0 17.440	56.987	7 1.00 41.41	6
ATOM	1184	CD GDO A 100		36.08			3 1.00 45.64	8
ATOM	1185	OE1 GLU A 152		-				8
ATOM	1186	OE2 GLU A 152		38.03				
ATCM	1187	C GLU A 152		40.14				
7.001		150		40.87	9 18.94	6 58.97	B 1.00 30.15	0

					-	40	E 4 3	21.170	58.765	1.00	33 00	7
ATOM	1189	N	TYR .				. 541					
ATOM	1190	CÀ	TYR .	a 15	3	41.	. 875	21.563	59.193	1.00		6
ATOM	1191	CB	TYR .	A 15	i3	42.	.019	23.074	59.058	1.00		6
ATOM	1192	CG	TYR			43	. 280	23.667	59.639	1.00	38.03	6
							498	23.611	58.948	1.00		6
ATOM	1193		TYR .									
ATOM	1194	CEl	TYR .	a 15	i3 .	45.	. 658	24.207	59.475	1.00		6
ATOM	1195	CD2	TYR .	A 15	3	43	. 250	24.321	60.869	1.00	37.19	6
			TYR				.387	24.913	61.401	1.00	41.09	6
ATOM	1196									1.00		6
ATOM	1197	CZ	TYR .				. 587	24.860	60.704			
ATOM	1198	OH	TYR .	A 15	53	46	. 696	25.480	61.241	1.00		8
ATOM	1199	С	TYR .	A 15	53	41	. 919	21.168	60.667	1.00	32.59	6
	1200	Ō	TYR			42	. 867	20.518	61.120	1.00	32.24	8
ATOM								21.556	61.397	1.00		7
MOTA	1201	N	LEU .				. 869					6
MOTA	1202	CA	LEU .				.730	21.261	62.823	1.00		
ATOM	1203	CB	LEU	A 15	54	39	. 443	21.889	63.378	1.00		6
ATOM	1204	CG	LEU	A 15	54	39	. 399	23.407	63.618	1.00	31.20	6 -
	1205		LEU				.991	23.833	64.041	1.00	28.53	6
MOTA							.418	23.787	64.691	1.00		6
ATOM	1206		LEU									6
ATOM	1207	C	LEU	A 15	4	40	.732	19.772	63.146	1.00		
ATOM	1208	O	LEU	A 15	54	41	. 223	19.363	64.196	1.00		8
ATOM	1209	N	ARG	A 15	55	40	.174	18.958	62.256	1.00	31.95	7
			ARG				.134	17.522	62.499	1 00	33.00	6
ATOM	1210	CA							61.561		33.13	6
ATOM	1211	CB	ARG				.127	16.847				
ATOM	1212	CG	ARG	A 15	55	37	.708	17.368	61.769		32.84	6
ATOM	1213	CD	ARG	A 15	55	36	. 678	16.719	60.863	1.00	32.92	6
	1214	NE	ARG			36	.152	15.451	61.363	1.00	33.98	7
MOTA							.195	14.760	60.741		37.93	6
ATOM	1215	CZ	ARG						-			. 7
MCTA	1216	NH1					.671	15.216	59.605		38.39	
MOTA	1217	NH2	ARG	A 15	55	34	.732	13.631	61.259		38.67	7
ATOM	1218	С	ARG	A 15	55	41	.521	16.929	62.331	1.00	33.97	6
	1219	ō	ARG				.869	15.941	62.985	1.00	32.95	8
MOTA							.318	17.548	61.467		34.20	7
ATOM	1220	N	LYS								36.32	6
MCTA	1221	CA	LYS				. 679	17.081	61.243			
ATCM	1222	CB	LYS	A 15	56	44	.249	17.662	59.942		37.57	6
ATOM	1223	CG	LYS	A 15	56	45	. 673	17.187	59.638	1.00	40.32	6
ATOM	1224	CD	LYS			46	.116	17.532	58.220	1.00	40.33	6
			LYS				.180	16.909	57.184	1.00	41.27	6
ATOM	1225	CE							. 57.364		37.92	7
ATOM	1226	NZ	LYS				.015					6
ATOM	1227	C	LYS				.539	17.501	62.428		36.17	
ATOM	1228	0	LYS	A 15	56	45	.582	16.905	62.699		34.53	8
ATOM	1229	N	LYS	à 15	57	44	.093	18.537	63.132		36.71	7
	1230	CA	LYS			44	.820	19.026	64.294	1.00	37.09	6
ATOM							.495	20.501	64.566		37.02	6
ATOM	1231	CB	LYS								36.22	6
ATOM	1232	CG	LYS				.982	21.435	63.477			
ATOM	1233	CD	LYS	A 15	57	46	.468	21.231	63.239		37.91	6
ATOM	1234	Œ	LYS	A 15	57	46	.993	22.100	62.107	1.00	39.35	6
	1235	.JZ	LYS				.434	21.815	61.842	1.00	38.78	7
ATOM							.498	18.178	65.515		35.61	6
ATOM	1236	~	LYS								36.38	8
ATOM	1237	0	LYS				.204	18.232	66.518			
ATOM	1238	N	GLY	A 15	58	43	.433	17.392	65.431		34.37	7
ATOM	1239	CA	GLY			43	.097	16.537	66.552	1.00	38.08	6
	1240	C	GLY				.782	16.781	67.267	1.00	38.78	6
ATOM			GLI		- 0			16.053	68.208		41.07	8
ATOM	1241	0	GLY				.460		66.855		36.75	7
ATOM	1242	N	PHE				.023	17.791				
MCTA	1243	CA	PHE	A 15	59	39	.743	18.046	67.505		33.83	6
ATOM	1244	CB	PHE			39	.246	19.459	67.213	1.00	32.65	6
		CG	PHE				.115	20.521	67.787	1.00	29.97	6
ATOM	1245							20.724	67.297		30.20	6
ATOM	1246		PHE				.404				29.28	6
ATOM	1247	CD2	PHE	A 1	59		.672	21.289	68.853			
ATOM	1248	CE1				42	.241	21.680	67.862		28.96	6
	1249	CE2					.498	22.246	69.428	1.00	29.67	5
ATOM			PHE				.785	22.442	68.931	1.00	30.59	. 6
ATOM	1250	CZ						17.026	67.025		33.41	6
ATOM	1251	С	PHE	A T	3 7							8
ATOM	1252	0	PHE				.664	16.716	65.838		31.61	
ATCM	1253	N	LYS	A 1	60	- 37	.951	16.506	67.966		35.13	7
	1254	CA	LYS				.947	15.493	67.677	1.00	35.39	∙ 6
ATOM	7734								•			

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1256 1257 1258 1259	CG CDE LL LLA A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	160 160 160 160 160 161 161 161 161 161	Fig	37.342 38.535 39.312 38.425 37.593 35.524 34.561 35.399 34.771 32.823 34.912 33.771 34.427 35.373 34.427 35.373 34.427 35.373 34.427 35.373 34.427 35.373 34.427 35.373 36.537 37.373	111111111111111111111111111111111111111		68.389 67.708 68.345 70.411 67.691 68.0445 70.5352 73.3705 73.	1.00 36.43 1.00 40.67 1.00 44.68 1.00 49.23 1.00 50.63 1.00 35.72 1.00 34.35 1.00 34.95 1.00 33.94 1.00 38.25 1.00 47.64 1.00 47.56 1.00 47.56 1.00 47.56 1.00 33.77 1.00 31.74 1.00 39.83 1.00 29.83 1.00 29.83 1.00 30.57 1.00 29.83 1.00 30.57 1.00 30.57 1.00 29.66 1.00 30.57 1.00 30.57 1.00 29.83 1.00 30.57 1.00 29.83 1.00 29.83 1.00 29.66 1.00 30.25 1.00 31.21 1.00 31.58 1.00 25.00 1.00 29.23 1.00 29.68 1.00 29.72 1.00 29.89	6566768766667677687666668766666876
MOTA MOTA MOTA	1291 1292 1293	CB CG CD1	TYR A	164 164		29.37	90	25.742 26.670	61.399 61.168 60.198	1.00 27.79 1.00 24.82 1.00 24.51	6 6 6
MOTA	1294	CE1	TYR A			30.24 28.21		27.655 25.827	60.631	1.00 27.61	6
ATOM	1295	CD2 CE2	TYR A			28.00		26.808	59.662	1.00 25.67	6
MOTA	1296 1297	CEZ		164		29.0		27.718	59.451	1.00 25.63	6 8
MOTA MOTA	1298	ЭН	TYR A	A 164		28.89		28.704	58.506	1.00 27.10 1.00 28.38	6
MOTA	1299	С	TYR A	A 164		28.1		25.907 25.225	64.218 64.277		8
ATOM	1300	5	TYR A	A 164		27.13 28.1		27.217	64.464		7
MOTA	1301	.i	ILE	A 165 A 165		26.9		27.969	64.754	1.00 22.93	6
MOTA	1302 1303	CA CB	TLE	A 165		26.9		28.649			6
MOTA MOTA	1303	CG2		A 165		25.7		29.559			6 6
ATOM	1305	CG1	ILE .	A 165		27.0		27.567			6
ATOM	1306	CD1	ILE .	A 165		27.1		28.101			6
ATOM	1307	С	ILE .	A 165		26.7 27.6		29.010 29.921			8
MOTA	1308	<u> </u>	ILE .	A 165 A 166		25.7		28.871		1.00 24.20	7
MOTA	1309	N CA	ASP	A 166		25.4		29.726	61.749	1.00 20.78	6
ATOM	1310 1311	CB	ASP	A 166		25.3		28.809			6
MOTA MOTA		CG	ASP	A 166		25.4	10	29.529			6 8
MOTA		CD1	ASP	A 166		24.5	-	30.391		·	8
ATOM	1314			A 166		26.3		29.231 30.67(6
ATOM	1315		ASP	A 166		24.2 23.1		30.25		6 1.00 22.70	8
ATOM			ASP	A 166 A 167		24.5		31.95	62.08	5 1.00 25.40	7
ATCM			LEU	A 167		23.5		32.95	4 62.25		6 6
MOTA MOTA		_	LEU	A 167		23.9	963	33.99			
MOTA			LEU	A 167		24.3	364	33.46	3 64.67	4 1.00 26.75	

MOTA	1321	CD1 L	LEU A	167			741	34.647			1.00	26.24 23.45	6 6
MOTA		CD2 L	LEU A	167		_	225 162	32.661		55.302 50.951		26.37	6
MOTA			LEU A				386	34.613	3 6	50.971		25.95	8
MOTA MOTA		N A	ASP A	168			726	33.208	8 5	9.828		29.66	7 6
ATOM-	1326	CA A	ASP A	168			410	33.787		8.520		28.35 33.29	6
ATOM	1327	CB A	ASP A	168			.057	32.987		57.390 56.037		35.38	6
ATOM			ASP A				. 937 . 892	33.670 34.380		55.659		39.48	8
MOTA	1329	OD1 /	ASP A ASP A	168	•		. 893	33.53		55.364		33.40	8
ATOM ATOM	1330 1331		ASP A				.906	33.61	4	58.408		28.74	6 8
MOTA	1332	0 2	ASP A	168			.354		-	58.948 57.711		26.21 26.16	7
ATOM	1333		ALA A		•		.239 .793	34.52		57.711 57.579		24.39	6
ATOM	1334 1335		ALA A ALA A				. 233	35.64	0	56.879	1.00	22.75	6
ATOM ATOM	1336	C .	ALA A	169		19	.420	33.15		56.813	1.00	24.37	6 - 8
ATOM	1337	0	ALA A	169			. 266	32.75		56.824 56.156	1.00	22.34 25.78	7
MOTA	1338	N	HIS A	170			.405 .180	32.54 31.32		55,375		25.20	6
ATOM	1339 1340		HIS A				.667	31.50		53.936	1.00	25.76	6
MOTA MOTA	1341		HIS A			20	.122	32.71	.1	53.245		29.08	6 6
ATOM	1342	CD2	HIS A	170		19	:338	32.83		52.147	1.00	30.59 30.77	7
ATOM	1343	ND1	HIS A	170			.384 .784	33.99 34.85		53.675 52.873	1.00	29.07	6
ATOM	1344	CE1	HIS A	170			.143	34.18		51.939	1.00	32.19	7
ATOM ATOM	1345 1346	NE2 C	HIS A	170			.895	30.11		55.958		26.00	6
ATOM	1347	0	HIS A	170			.913	30.23		56.637		25.76 27.29	8 7
MOTA	1348	N	HIS A	171			.349	28.93 27.65		55.658 56.090	1.00	25.01	6
MOTA	1349	CA CB	HIS A	171			.934	26.53		55.663	1.00	24.93	6
MOTA MOTA	1350 1351	CG	HIS A		•	20	.468	25.14		55.889		26.56	6 6
MOTA	1352	CD2	HIS A	A 171).674	24.12		55.028 57.137	1.00	22.34	7
ATOM	1353	ND1	HIS A	A 171			.823	24.67 23.42		57.036	1.00		6
MOTA	1354	CE1	HIS A	A 171 A 171			1.222	23.00		55.767	1.00	24.13	7
MOTA MOTA	1355 1356	C	HIS .	A 171			2.267	27.43		55.471	1.00	24.74	6 8
ATOM	1357	Ō	HIS .	A 171			2.540	27.8		54.356 56.190	1.00		7
MOTA	1358	N	CYS .	A 172			3.131 4.467	26.70 26.30		55.683	1.00	23.41	6
MOTA	1359 1360	CA CB	CYS	A 172 A 172			5.497	26.4		56.812		19.31	6
MOTA MOTA	1361	SG	CYS	A 172			5.005	25.6		58.318		0 16.78 0 25.45	16 6
ATOM	1362	С		A 172			4.484	24.9 24.0		55.048 55.483	1.00	0 24.47	8
MOTA	1363	0	CYS	A 172 A 173			5.203 3.664	24.8		54.015	1.0	0 26.67	7
ATOM	1364 1365	N CA	ASP	A 173		_	3.542	23.5		53.269	1.0	0 26.47	6
MOTA MOTA	1366	CB	ASP	λ 173°			2.735	23.8		51.993	1.0	0 26.33 0 27.06	6 6
MOTA	1367	CG	ASP	A 1'3			3.281	25.0 25.5	130 558	51.179 50.330	1.0	0 23.43	8
MOTA	1368	001	ASP	ز11 A 173 A		2	2.539 4.454			51.372	1.0	0 29.38	8
MOTA MOTA	1369 1370	C C	ASP	A 173			4.872	22.9	32	52.922		0 26.65	6
ATOM	1371	Ô	ASP	A 173			4.940			52.784	1.0	0 28.38 0 25.24	8 7
ATOM	1372	N	GLY	A 174			5.926			52.793 52.447	1.0	0 23.11	6
ATOM	1373	CA		A 174 A 174			7.227 7.896			53.612	1.0	0 25.64	6
ATOM ATOM	1374 1375	С 0	GLY	A 174			8.443	21.4	108	53.462	_	0 27.67	8 7
ATOM	1376	N	VAL	A 175			7.848			54.778		0 24.29 0 22 <i>:</i> 20	6
ATOM	1377	CA	VAL	A 175			8.459			55.989 57.101		0 20.15	6
ATOM	1378	CB -CC1	VAL	A 175 A 175			8.536 9.449			58.218	1.0	0 20.11	6
MOTA	1379 1380	(CC)	VAL	à 175			9.01	24.9	989	56.530	-	0 18.74	6 6
atom atom	1381	c	VAL	A 175			7.64			56.505		00 22.85 00 20.07	
ATOM	1382	0	VAL	A 175			8.17			57.173 56.203	_	00 24.12	7
ATOM	1383		GLN	A 176			6.350 5.51		303	56.629	1.0	00 27.18	6
ATOM	1384	CA CB	GLN	A 176 A 176			4.04		611	56.355	1.9	00 32.86	
MOTA MOTA	1385 1386	_	GLN	A 176			23.08			56.72	5 1.9	00 36.04	6
ATOM	1200			٠.									

								2.2		_
		כם כניזי י	A 176	21	620	19.862	56.537	1.00 38	.36	6
MOTA	1387					20.782	57.185	1.00 38	.59	8
ATOM	1388		A 176		.113			1.00 38		7
ATOM	1389	NE2 GLN	A 176		. 934	19.151	55.649			
	-		A 176	25	. 956	19.083	55.841	1.00 27		6
MOTA	1390				. 326	18.066	56.416	1.00 26	5.89	8
ATOM	1391		A 176				54.519	1.00 27	1.96	7
ATOM	1392		A 177		.951	19.194		1.00 31	16	6
ATOM	1393	CA GLU .	A 177	26	. 343	18.062	53.698			
			A 177	26	. 395	18.460	52.220	1.00 30		6
MOTA	1394				. 353	17.256	51.287	1.00 36	5.20	6
ATOM	1395		A 177			17.626	49.818	1.00 40	0.70	6
ATOM	1396		A 177		. 273		49.234	1.00 46		8
ATOM	1397	OE1 GLU	A 177	_	.322	17.967				8
	1398	OE2 GLU	A 177	25	.155	17.590	49.250	1.00 39	9.33	
ATOM	1399		A 177	27	.702	17.516	54.137	1.00 3	1.66	6
ATOM			A 177		.868	16.317	54.356	1.00 3	2.81	8
MOTA	1400				.663	18.419	54.287	1.00 3	3.39	7
MOTA	1401	N ALA	A 178	28	.003		54.673	1.00 3	1:63	6
MOTA	1402	CA ALA	A 178		.026	18.072		1.00 3		6
MOTA	1403	CB ALA	A 178	30	.830	19.338	54.856	1.00 3	0.50	6
	1404	C ALA	A 178	30	.204	17.185	55.897	1.00 3		
MOTA		0 713	A 178	31	.032	16.276	55.876	1.00 2		8
ATOM	1405	O ALA	2 170		.444	17.444	56.961	1.00 3	1.01	7
MOTA	1406	N PHE	A 179		.590	16.656	58.184	1.00 3	1.34	6
MOTA	1407		A 179				59.310	1.00 3	0.13	6
MOTA	1408		A 179		.147	17.532		1.00 2	7 79	6
ATOM	1409	CG PHE	A 179		189	18.505	58.858			
	1410		A 179	30	.827	19.790	58.466	1.00 2		6
MOTA		CD2 PHE	A 179		.522	18.124	58.766	1.00 2		6
ATOM	1411	CDZ PRE	2 170		.778	20.688	57.988	1.00 2	6.68	6
MOTA	1412		A 179			19.013	58.285	1.00 2	8.79	6
MOTA	1413		A 179		3.487		57.895	1.00 2	8 67	6
MOTA	1414	CZ PHE	A 179		3.111	20.300		1.00 3		6
MOTA	1415	C PHE	A 179		3.300	16.003	58.664			8
	1416	O PHE	A 179	28	3.218	15.542	59.803	1.00 3		
MOTA			A 180	2.7	7.305	15.960	57.787	1.00 3		7
MOTA	1417				5.001	15.377	58.099	1.00 3	38.60	6
MOTA	1418		A 180			15.605	56.911	1.00 3	38.99	6
MOTA	1419	CB TYR	A 180		5.062		57.220	1.00	7.91	6
ATOM	1420	CG TYR	A 180 ·		3.593	15:453		1.00	5 03	6
ATOM	1421	CD1 TYR	A 180	22	2.938	14.232	57.064			6
	1422		A 180	2:	1.589	14.103	57.373	1.00	39.20	
MOTA			A 180	2:	2.861	16.543	57.694	1.00	37.56	6
MOTA	1423				1.518	16.430		1.00	40.28	6
MOTA	1424		A 180		0.882	15.211		1.00	41.92	6
MOTA	1425		A 180					1.00	43.41	8
ATOM	1426		A 180		9.549	15.110		1.00		6
ATOM	1427	C TYR	A 180		6.133	13.884				8
ATOM	1428		A 180	2	5.158	13.192		_	39.41	7
	1429		A 181	2	7.363	13.402	58.319		43.51	
ATOM		N ASE	A 181		7.638	11.994	58.519	1.00	45.89	6
ATOM	1430					11.487			51.00	6
ATOM	1431	CB ASP	A 181		8.414				56.84	6
MOTA	1432	CG ASP	A 181		8.830				59.47	8
ATOM	1433	OD1 ASP	A 181		9.637	9.750			60.73	8
ATOM	1434	OD2 ASP	A 181	2	8.348	9.221			00.75	
		C ASP	A 181		8.398		59.804		44.75	6
ATOM	1435		A 181		8.257		60.350		44.69	8
ATOM	1436				9.194				41.26	7
ATOM	1437		A 182				·		39.51	6
MOTA	1438		R A 182		9.975				39.19	6
ATOM	1439		R A 182		1.408				37 07	8
	1440		R A 182	3	2.171	12.508	62.505		37.82	0
ATOM			R A 182		1.395		7 61.232		40.12	6
MOTA	1441				9.370				38.58	6
MOTA	1442		R A 182						41.24	8
ATCM	1443		R A 182		8.609				37.39	7
ATOM	1444	N ASI	P A 183		29.712				39.24	
	1445	CA ASI	P A 183	2	29.211				40 31	
ATOM			A 183		28.824	1 11.58	8 66.06		40.31	6
ATOM	1446		P A 183		0.010		3 66.43		41.64	
ATOM	1447				30.725		-	0 1.00	42.53	
ATOM	1448		P A 183			10.20		-	42.46	
MOTA			P A 183		30.223				40.34	
ATOM			P A 183		30.28				42.07	
			P A 183		30.109					
ATOM			N A 184		31.40	0 13.83	0 65.15	4 1.00	39.29	, '
2.TOM	1404	, 14 GTM			-		-	-		

32.506 14.635 65.671 1.00 37.08 CA GLN A 184 MOTA 1453 14.252 64.994 1.00 33.77 33.830 CB . GLN A 184 1454 ATOM 1.00 33.63 34.229 12.804 65.166 GLN A 184 1455 CG MOTA 64.593 1.00 32.74 35.599 12.499 GLN A 184 1456 CD ATOM 12.704 63.413 1.00 31.17 OE1 GLN A 184 35.853 1457 MOTA 36.490 11.999 65.436 1.00 36.58 NE2 GLN A 184 1458 MOTA 32.222 1.00 36.42 16.110 65.403 6 GLN A 184 1459 C MOTA 66.034 1.00 37.41 16.994 GLN A 184 32.803 1460 0 MOTA 64.456 1.00 33.14 31.329 16.372 N VAL A 185 1461 ATOM 17.740 64.119 1.00 32.40 30.984 VAL A 185 1462 CA ATOM 62.641 1.00 33.03 18.052 VAL A 185 31.308 1463 CB MOTA 1.00 29.27 1.00 34.58 62.331 31.009 19.520 CG1 VAL A 185 1464 ATOM 32.773 17.738 62.357 6 CG2 VAL A 185 1465 MOTA 1.00 31.51 64.360 29.508 17.972 VAL A 185 1466 С MOTA 28.680 17.124 64.038 1.00 31.71 VAL A 185 0 1467 ATOM 1.00 30.98 64.946 7 PHE A 186 29.185 19.119 1468 N MOTA 27.798 65.207 1.00 31.44 6 19.463 PHE A 186 1469 CA ATOM 27.524 66.716 19.532 1.00 30.96 6 PHE A 186 1470 CB MOTA 1.00 31.59 67.066 26.059 19.617 PHE A 186 1471 CG MOTA 1.00 30.54 25.552 68.153 CD1 PHE A 186 18.901 1472 ATOM 1.00 31.50 25.179 20.395 66.308 CD2 PHE A 186 1473 MOTA 1.00 33.28 68.478 CE1 PHE A 186 24.191 18.951 MOTA 1474 1.00 33.04 1.00 32.35 66.622 20.457 23.815 CE2 PHE A 186 1475 MOTA 23.318 67.708 19.733 PHE A 186 1476 C2 ATOM 1.00 30.37 27.490 28.189 64.551 20.798 PHE A 186 1477 С MOTA 21.789 64.751 1.00 31.32 PHE A 186 1478 0 ATOM 1.00 31.14 7 20.809 63.752 VAL A 187 26.435 1479 N MOTA 63.063 1.00 32.05 22.015 VAL A 187 26.024 CA 1480 ATOM 1.00 33.54 26.018 6 21.805 61.525 1481 CB VAL A 187 MOTA 25.574 27.420 1.00 32.07 CG1 VAL A 187 23.081 60.813 1482 MOTA 21.389 61.056 1.00 35.44 CG2 VAL A 187 1483 ATOM 1.00 31.47 63.524 24.638 22.439 VAL A 187 С 1484 ATOM 1.00 29.06 1.00 29.44 21.686. 63.410 VAL A 187 23.666 0 MOTA 1485 24.579 23.336 23.433 64.090 23.638 LEU A 188 1486 N MOTA 1.00 29.39 64.551 LEU A 188 24.228 CA MOTA 1487 66.009 1.00 29.62 24.665 LEU A 188 1488 CB MOTA 1.00 27.92 6 22.293 25.589 66.458 LEU A 188 1489 CG MOTA 66.414 1.00 25.87 6 20.970 24.844 CD1 LEU A 188 1490 MOTA 22.574 1.00 27.69 26.107 67.861 6 CD2 LEU A 188 1491 MOTA 63.675 1.00 31.89 23.161 24.130 25.454 LEU A 188 1492 C MOTA 26.175 63.388 1.00 31.50 LEU A 188 1493 0 ATOM 1.00 29.93 63.250 25.700 SER A 189 21.929 1494 N MOTA 1.00 24.65 1.00 22.40 62.390 6 26.831 SER A 189 21.682 1495 CA MOTA 26.411 60.942 21.873 SER A 189 1496 CB MOTA 1.00 19.12 21.585 20.716 60.083 27.485 SER A 189 1497 OG MOTA 27.462 1.00 27.00 62.540 SER A 189 1498 C ATOM 1.00 26.72 8 26.774 62.577 19...96 SER A 189 1499 0 ATOM 1.00 27.41 62.669 28.783 LEU A 190 20.121 ATOM 1500 N 1.00 29.68 29.554 62.735 6 19.096 CA LEU A 190 1501 MOTA 1.00 29.84 19.185 63.771 LEU A 190 LEU A 190 30.682 1502 CB ATOM 1.00 26.79 65.264 30.366 19.108 CG 1503 ATOM 1.00 23.44 66.045 19.020 31.662 CD1 LEU A 190 1504 ATOM 1.00 27.63 29.549 65.546 CD2 LEU A 190 17.881 1505 MOTA 30.141 1.00 29.58 61.329 19.046 LEU A 190 С 1506 MOTA 1.00 32.40 30.525 60.790 20.084 LEU A 190 1507 0 MOTA 1.00 29.61 60.727 30.206 17.864 HIS A 191 1508 N ATOM 17.766 30.726 59.368 1.00 29.72 HIS A 191 1509 CA MOTA 1.00 26.47 6 18.595 29.839 58.432 HIS A 191 1510 CB MOTA 1.00 28.18 6 58.504 18.225 28.392 HIS A 191 1511 CG MOTA 6 58.940 1.00 28.88 18.918 27.313 CD2 HIS A 191 27.921 ATOM 1512 1.00 31-00 16.989 58.118 ND1 HIS A 191 1513 ATOM 1.00 30.54 CE1 HIS A 191 16.938 26.614 58.312 1514 ATOM 1.00 27.21 58.810 18.095 26.220 NE2 HIS A 191 1515 ATOM 1.00 28.05 16.329 30.812 58.856 1516 HIS A 191 C ATOM 1.00 27.81 59.535 15.385 30.411 HIS A 191 0 1517 ATOM 57.649 1.00 29.39 16.183 31.346 GLN A 192 1518 N ATCM

3 TOM	1519	CA GLN	A 192		14.	886	31.	494	57.0		1.00 2		6
MOTA MOTA			A 192		15.	016	32.	416	55.7		1.00		6
ATOM			A 192		15.	622	33.	773	56.1		1.00		6
ATOM			A 192		15.	701	34.		54.9		1.00		6
ATOM			A 192		14.	684	35.		54.4		1.00		8 7
ATOM			A 192		16.	914		925	54.4		1.00		
MOTA			A 192		14.	435		104	56.5		1.00		6
ATOM			A 192		15.	157		403	55.8		1.00		8
ATOM			A 193		13.	249		694	57.0		1.00		7 6
ATOM		CA SER	A 193		12.	751		376	56.6			33.28	6
ATOM		CB SER	A 193			264		249	56.9			33.25 31.52	8
ATOM	1530		A 193			786		987	56.5			34.79	6
ATOM	1531		A 193			974		150	55.1			33.74	8
ATOM	1532	O SER	A 193			.775		051	54.3		1 00	37.57	7
ATOM	1533		A 194			.404		938	55.0			38.89	6
MOTA	1534		A 194			. 689		.775 .600	53.4			37.81	6
MOTA	1535		A 194			.654 .248		.194	53.4			39.30	6
MOTA	1536		A 194			. 840		.163	54.			39.09	6
MOTA	1537		A 194 A 194			. 340		.617	52.		1.00	36.81	6
ATOM	1538		A 194			.317		.443	51.			34.09	8
MOTA	1539		A 195	•		.246		.835	53.			39.25	7
MOTA	1540		A 195			.928		.866	52.	750		41.54	6
MOTA	1541 1542	CB GLU	A 195			.843	26	.600	53.	812		45.84	6
MOTA	1543		A 195		8	.360	27	.811	54.			53.30	6
MOTA MOTA	1544	CD GLU	A 195		7	.160		.502		960		55.91	6
ATOM	1545		A 195		6	.735		.571		461		55.14	8 8
ATOM	1546	OE2 GLU	A 195			.631		.966	_	956		57.75 39.50	6
MOTA	1547	C GLU	A 195			.700		.208		047	1.00		8
ATOM	1548	O GLU	A 195			.651		.431	51.	452 098	1.00		7
MOTA	1549		A 196			.689		.096 .379		434	1.00		6
MOTA	1550	CA TYR				.549 .602		.274		245	1.00		6
MOTA	1551		A 196			.175		.816		538		37.28	6
ATOM	1552		A 196 A 196			.120		.848		527	1.00	35.42	6
ATOM	1553		A 196			.637		.366		706		33.10	6
ATOM	1554 1555	CD2 TYR				.764		.311		776	1.00	36.75	6
MOTA	1556		A 196		10	.279	31	.825		968		35.26	6
MOTA MOTA	1557		A 196		11	.213	32	.856		.922		35.84	6 8
ATOM	1558	OH TYR	R A 196			.704		.401		.087	1.00	37.09	6
ATOM	1559	C TYR	R A 196			.878		097		.188		31.61	8
ATOM	1560	O TYR	R A 196			896		2.256		.764 .437	1.00		7
ATOM	1561		A 197			2.991).416 L.041		.242	1.00		6
MOTA	1562		A 197			1.297		1.826		.489	1.00		6
MOTA	1563		A 197			5.418	31	0.075		.887		36.59	6
MOTA	1564		A A 197			5.407		3.903	51	.291	1.00	37.46	8
ATOM	1565	O ALA	A A 197 E A 198			5.388		5.584		.133	1.00	36.22	7
MOTA	1566		E A 198		1	7.548		9.802	49	.722	1.00	37.68	6
ATOM	1567 1568		E A 198			3.597		0.729	49	.109		40.89	6
MOTA	1569		E A 198			9.810		0.013		.578		43.59	6
ATOM ATOM	1570		E A 198		19	9.783		9.404		.325		0 44.74	6
ATOM	1571	CD2 PH	E A 198			0.970		9.929	_	.336		0 41.86	6 6
ATOM	1572	CE1 PHI	E A 198	-	2	0.894		8.729		.833		0 41.42	6
ATOM	1573		E A 198		2	2.079		9.251	-	.849		0 43.30 0 41.86	6
MOTA	1574	CZ PHI	E A 198			2.040		8.652		.595	1.0	0 37.00	6
ATOM	1575	C PHI	E A 198			8.139		9.140	_	.967	_	0 36.43	8
ATOM	1576	O PHI	E A 198			8.166		9.754		.036 .848		0 37.63	
ATOM	1577		O A 199			8.641		7.892		.997		0 35.29	_
ATOM	1578		O A 199			9.298		7.238 7.008		673		0 36.52	6
ATOM	1579	CA PR	O A 199			8.727		5.936).138		0 34.96	6
MOTA	1580	CB PR	O A 199			9.702 9.281		5.77		.565		0 34.57	6
ATOM	1581	CG PR	O A 199 O A 199			7.409		6.380		222	1.0	0.35.72	6
ATOM	1582	C PR	O A 199 O A 199			7.386		5.66		3.225	1.0	0 37.36	
ATOM	1583	O PR	E A 200			6.331		6.63		9.962	1.0	0 33.78	3 7
MOTA	1584	N PH			•				-		•		

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	1585	CA PHE A 200		15.004	26.090		1.00 32.15	6
ATOM				14.562	26.381	48.222	1.00 28.39	6
MOTA	1586			14.600	27.827	47.835	1.00 26.29	6
ATOM	1587	CG PHE A 200				47.296	1.00 24.82	6
MOTA	1588	CD1 PHE A 200		15.749	28.385		1.00 28.04	6
MOTA	1589	CD2 PHE A 200		13.466	28.623	47.966	1.00 25.68	6
ATOM.	1590	CE1 PHE A 200		15.767	29.712	46.882	1.00 25.00	
ATOM	1591	CE2 PHE A 200		13.475	29.955	47.557	1.00 27.03	6
	1592	CZ PHE A 200		14.626	30.498	47.013	1.00 24.90	6
ATOM	_			14.947	24.574	49.842	1.00 32.66	6
MOTA	1593			13.925	24.033	50.264	1.00 31.22	8
MOTA	1594	O .PHE A 200		16.043	23.896	49.499	1.00 33.60	7
MOTA	1595	N GLU A 201				49.585	1.00 30.86	6
ATOM	1596	CA GLU A 201		16.128	22.438		1.00 32.98	6
ATOM	1597	CB GLU A 201	•	17.213	21.931	48.637-	1.00 32.50	6
MOTA	1598	CG GLU A 201		16.879	22.182	47.175	1.00 33.32	6
ATOM	1599	CD GLU A 201		18.012	21.864	46.232	1.00 34.56	
ATOM	1600	OE1 GLU A 201		18.396	20.678	46.117	1.00 36.35	8 -
	1601	OE2 GLU A 201		18.523	22.814	45.605	1.00 36.52	8
MOTA	1602	C GLU A 201		16.369	21.911	50.981	1.00 28.52	6
ATOM				15.537	21.199	51.520	1.00 28.91	8
MOTA	1603			17.511	22.239	51.566	1.00 31.64	7
MOTA	1604	N LYS A 202		17.795	21.780	52.917	1.00 32.34	6
MOTA	1605	CA LYS A 202		19.276	21.432	53.092	1.00 36.91	6
MOTA	1606	CB LYS A 202				52.307	1.00 43.74	6
ATOM	1607	CG LYS A 202		19.789	20.226		1.00 49.31	6
MOTA	1608	CD LYS A 202		20.212	20.590	50.891	1.00 49.31	6
ATOM	1609	CE LYS A 202		20.952	19.428	50.227	1.00 49.34	7
ATOM	1610	NZ LYS A 202		21.504	19.802	48.895	1.00 49.89	
	1611	C LYS A 202		17.421	22.849	53.937	1.00 30.55	6
ATOM	1612	O LYS A 202		16.877	23.890	53.586	1.00 26.55	8
MOTA	1613	N GLY A 203		17.710	22.571	55.203	1.00 30.59	7
MOTA				17.422	23.519	56.259	1.00 30.24	6
MOTA	1614			16.216	23.210	57.125	1.00 29.23	6
MOTA	1615	0.00		15.915	23.975	58.041	1.00 32.90	8
MOTA	1616	O GLY A 203		15.526	22.104	56.866	1.00 26.32	7
MOTA	1617	N PHE A 204			21.779	57.657	1.00 23.25	6
MOTA	1618	CA PHE A 204		14.344		56.863	1.00 21.25	6
MOTA	1619	CB PHE A 204		13.366	20.917		1.00 18.60	6
ATOM	1620	CG PHE A 204		12.855	21.573	55.635	1.00 16.43	6
ATOM	1621	CD1 PHE A 204		13.605	21.560	54.461		6
ATOM	1622	CD2 PHE A 204		11.654	22.273	55.664		6
ATOM	1623	CE1 PHE A 204		13.168	22.245	53.333	1.00 16.91	
	1624	CE2 PHE A 204		11.206	22.962	54.544	1.00 15.28	6
MOTA	1625	CZ PHE A 204		11.965	22.952	53.375	1.00 18.34	6
ATOM	1626	C PHE A 204		14.626	21.094	58.979	1.00 23.72	6
ATOM		O PHE A 204		15.578	20.318	59.118	1.00 22.68	8
ATOM	1627	0.05		13.760	21.376	59.942	1.00 20.94	7
ATOM	1628			13.877	20.818	61.272	1.00 24.83	6
ATOM	1629		•	12.678	21.259	52.110	1.00 21.29	6
MOTA	1630	CB LEU A 205		12.672	20.811	33.568	1.00 22.67	6
MOTA	1631	CG LEU A 2.05			21.182	74.245	1.00 19.76	6
MOTA	1632	CD1 LEU A 205		14.011		64.275	1.00 20.62	6
ATOM	1633	CD2 LEU A 205		11.478		61.303	1.00 28.79	
MOTA	1634	C LEU A 205		14.002				8
MOTA	1635	O LEU A 205		14.443	18.730	62.310	1.00 23.52	7
ATOM	1636	N GLU A 206		13.625		60.211	1.00 33.32	6
ATOM	1637	CA GLU A 206		13.693		60.142	1.00 39.79	
	1638	CB GLU A 206		12.736	16.616	59,070	1.00 44.37	6
ATOM	1639	CG GLU A 206		11.284	17.060	59.204	1.00 50.75	6
MOTA		CD GLU A 206		11.014		58.512	1.00 55.31	6
ATOM	1640	OE1 GLU A 206,		9.972		58.797	1.00 55.36	8
ATOM	1641	OET OTO 9 500'		11.839			1.00.56.48	8
MOTA	1642	OE2 GLU A 206		15.114		-		6
MOTA	1643	C GLU A 206						8
MOTA	1644	O GLU A 206		15.483				7
ATCM	1645	N GLU A 207		15.903		_		6
ATOM	1646	CA GLU A 207		17.286	17.219			6
	1647	CB GLU A 207		17.77€				6
ATOM	1648	CG GLU A 207		16.983				6
ATOM	1649	CD GLU A 207		16.978		55.773		
ATOM		OE1 GLU A 207		18.071			1.00 35.44	8
MOTA	1650	OEI GLO A 207				-		

	1651 05	2 GLU A 207	15.870	19.891		.00 34.62	8
	1651 OE 1652 C	GLU A 207	18.139	17.239	-	1.00 36.18	6 8
ATOM	1653 0	GLU A 207	18.560	18.303	• • • •	1.00 34.81 1.00 34.45	7
ATOM	1654 N	ILE A 208	18.381	16.059	• • •	1.00 34.43	6
ATOM T	1655 CA	ILE A 208	19.164	15.965		1.00 41.12	6
ATOM	1656 CE	ILE A 208	18.260	15.511	64.375	1.00 41.36	6
ATOM	1657 CC		19.097	15.273	63.383	1.00 42.21	6
ATOM	1658 CC		17.193	16.581		1.00 44.81	6
ATOM		01 ILE A .208	16.291	16.286 15.074	61.876	1.00 36.66	6
MOTA	1660 C	ILE A 208	20.407 21.243	15.074	62.775	1.00 34.03	8
MOTA	1661 0	ILE A 208	20.540			1.00 36.80	7
ATOM	1662 N	GLY A 209	21.703		60.728	1.00 38.99	6
ATOM	1663 C	A GLY A 209 GLY A 209	21.509		59.805	1.00 40.93	6
MOTA	1664 C		20.477		59.145	1.00 40.26	8
MOTA	1665 O 1666 N		22.508		59.775	1.00 42.16	7
ATOM	1667 C.		22.492		58.930	1.00 43.30	6 6
MOTA	1668 C		22.810	10.586	57.488	1.00 47.08	6
MOTA MOTA	1669 C	G GLU A 210	22.826		56.478	1.00 53.90 1.00 56.27	6
ATOM		D GLU A 210	23.256	9.915	55.089	1.00 56.19	8
ATOM		E1 GLU A 210	24.412		54.941 54.145	1.00 60.28	8
ATOM	1672 0	E2 GLU A 210	22.437	9.826 9.276	59.473	1.00 41.47	6
MOTA	1673 C	GLU A 210	23.583		59.152	1.00 43.97	8
MOTA	1674 O	GLU A 210	24.750 23.203		60.299	1.00 39.97	7
MOTA	1675 N		24.183		60.885	1.00 37.34	6
ATOM		GLY A 211	24.642		62.224	1.00 37.84	6
ATOM	1677 C		23.82		63.019	1.00 37.30	8
MOTA	1678 C		25.94	7.910	62.485	1.00 38.52	7 6
ATOM		A LYS A 212	26.49			1.00 38.29	6
MOTA MOTA		B LYS A 212	28.02			1.00 40.54 1.00 46.39	6
ATOM		G LYS A 212	28.57	0 6.950		1.00 40.39	6
ATOM		D LYS A 212	28.14	9 6.147		1.00 52.77	6 -
ATOM		CE LYS A 212	28.55		- ·	1.00 55.48	7
ATOM		NZ LYS A 212	30.03 26.06	·		1.00 37.68	6
ATOM		LYS A 212 LYS A 212	25.81			1.00 34.75	. 8
MOTA			25.95			1.00 38.89	7
MOTA		N GLY A 213 CA GLY A 213	25.57		62.724	1.00 43.58	6
ATOM		C GLY A 213	24.12			1.00 43.99	6 8
ATOM ATOM		G GLY A 213	23.73	7 13.464	63.024	1.00 44.67 1.00 46.02	7
ATOM		N LYS A 214	23.32		63.265	1.00 45.62	6
ATOM		CA LYS A 214	21.90			1.00 47.77	6
ATOM		CB LYS A 214			·	1.00 49.25	6
MOTA		CG LYS A 214				1.00 51.64	6
MOTA		CD LYS A 214			440	1.00 54.30	6
MOTA		CE LYS A 214 NZ LYS A 214				1.00 56.09	7
MOTA		NZ LYS A 214 C LYS A 214			7 64.970	1.00 44.22	6
ATOM	1699 1700	O LYS A 214		LO 11.41		1.00 45.04	8 7
ATOM	1701	N GLY A 215	21.29	2 13.26		1.00 42.89	6
ATOM ATOM	1702	CA GLY A 215	21.19				6
ATOM	1703	C GLY A 215	22.2				8
ATOM	1704	O GLY A 215				1.00 38.49	7
MOTA	1705	N TYR A 216	23.1				6
ATOM	1706	CA TYR A 216	24.2				6
MOTA	1707	CB TYR A 21	5 25.6 5 25.9			1.00 39.54	6
MOTA		CG TYR A 21				1.00 40.62	6
ATOM		CD1 TYR A 21			-	1.00 41.58	
ATOM		CE1 TYR A 216 CD2 TYR A 21			5 67.739	1.00 39.20	
ATOM		CD2 TYR A 21 CE2 TYR A 21	·		.5 68.78 6		
ATOM		CZ TYR A 21		75 12.68	68.833		6 8
ATOM		OH TYR A 21	6 26.7	43 11.80			
ATOM		C TYR A 21	6 24.1			·	_
ATOM ATOM		O TYR A 21		94 17.83	64.37	2 1.00 33.37	_

ATOM ATOM	1717 1718	N CA	ASN A 217 ASN A 217		22.976 22.726	17.471 18.558 18.057	64.212 63.267 61.823	1.00 33.83 1.00 30.20 1.00 27.74	7 6 6
ATOM	1719	CB	ASN A 217 ASN A 217		22.699 22.457	19.177	60.826	1.00 25.61	6
MOTA	1720 1721	CG OD1	ASN A 217		21.354	19.705	60.719	1.00 25.00	8
ATOM	1722	ND2	ASN A 217		23.501	19.558	60.103	1.00 30.43	7
MOTA MOTA	1723	C	ASN A 217		21.369	19.116	63.645	1.00 29.09	6
MOTA	1724	Ō	ASN A 217		20.433	18.351	63.885	1.00 26.93	8
ATOM	1725	N	LEU A 218		21.263	20.440	63.710	1.00 27.19	7 6
ATOM	1726	CA	LEU A 218		20.010	21.071	64.089	1.00 25.33 1.00 23.23	6
MOTA	1727	CB	LEU A 218		20.026	21.379 21.704	65.590 66.346	1.00 23.23	6
MOTA	1728	CG	LEU A 218		18.729	22.313	67.695	1.00 18.62	6
MOTA	1729	CD1	LEU A 218 LEU A 218		19.100 17.872	22.515	65.583	1.00 18.48	6
MOTA	1730	CD2	LEU A 218		19.785	22.368	63.325	1.00 25.04	6
MOTA	1731 1732	С 0	LEU A 218		20.596	23.287	63.415	1.00 25.23	8
MOTA	1733	N	ASN A 219		18.681	22.436	62.584	1.00 28.44	7
ATOM ATOM	1734	CA	ASN A 219		18.310	23.636	61.829	1.00 28.76	6
MOTA	1735	CB	ASN A 219		17.809	23.298	60.417	1.00 25.69	6 6
ATOM	17.36	CG	ASN A 219		18.748	22.408	59.646	1.00 26.10 1.00 28.53	8
MOTA	1737	OD1			19.927	22.708	59.505 59.114	1.00 26.97	7
MOTA	1738				18.220	21.311 24.248	62.582	1.00 31.96	6
MOTA	1739	C	ASN A 219	•	17.129 16.373	23.539	63.246	1.00 34.84	8
MOTA	1740	0	ASN A 219 ILE A 220		16.952	25.556	62.472	1.00 32.96	7
MOTA	1741 1742	N CA	ILE A 220		15.826	26.196	63.129	1.00 32.50	6
MOTA	1742	CB	ILE A 220		16.259	27.037	64.350	1.00 32.32	6
MOTA MOTA	1744	CG2			15.029	27.644	65.014	1.00 29.46	6
MOTA	1745	CG1	ILE A 220		16.978	26.160	65.374	1.00 29.65	6 6
ATOM	1746	CD1	ILE A 220		16.080	25.138	66.027	1.00 28.65 1.00 35.36	6
ATOM	1747	С	ILE A 220		15.140	27.106	62.123 62.009	1.00 35.50	8
MOTA	1748	0	ILE A 220		15.469	28.290 26.553	61.359	1.00 36.87	7
MOTA	1749	N	PRO A 221		14.185 13.718	25.158	61.359	1.00 35.12	6
MOTA	1750	CD	PRO A 221 .		13.716	27.318	60.356	1.00 35.41	6
MOTA	1751	CA	PRO A 221 PRO A 221		12.509	26.262	59.767	1.00 35.68	6
ATOM	1752 1753	CB CG	PRO A 221		13.319	24.992	59.911	1.00 33.86	6
MOTA MOTA	1754	Ċ	PRO A 221		12.696	28.437	61.053	1.00 34.37	6
ATOM	1755	ō	PRO A 221		12.014	28.199	62.043	1.00 38.79	8 7
MOTA	1756	N	LEU A 222		12.815	29.655	60.547	1.00 34.76 1.00 33.87	6
ATOM	1757	CA	LEU A 222		12.138	30.796	61.166 61.798	1.00 35.87	6
MOTA	1758	CB	LEU A 222		13.173	31.735 31.163	62.876	1.00 33.07	6
ATOM	1759	CG	LEU A 222		14.104 15.234	32.150	63.154	1.00 34.04	6
MOTA	1760	CD	LEU A 222 LEU A 222		13.312	30.856	64.141	1.00 32.39	. 6
MOTA	1761 1762	C	LEU A 222		11.287	31.567	60.157	1.00 32.15	6
ATOM	1763	0	LEU A 222		11.669	31.740	59.000	1. 0 31.32	8
MOTA MOTA	1764	N	PRO A 223		10.127	32.060	60.601	1.17 30.97	7
MOTA	1765	CD	PRO A 223		9.606	31.913	61.972	1.00 32.34	6 6
ATOM	1766	CA	PRO A 223		9.173	32.818	59.789	1.00 30.55	6
ATOM	1767	CB	PRO A 223		7.957	32.893	60.702 62.046	1.00 31.02	6
ATOM	1768	CG	PRO A 223		8.626	33.068 34.205	59.366	1.00 29.20	6
ATOM	1769	C	PRO A 223		9.645 10.694	34.680	59.796	1.00 31.95	8
MOTA	1770	0	PRO A 223 LYS A 224		8.841	34.841	58.521	1.00 26.14	7
MOTA	1771	N	LYS A 224		9.115	36.172			6
ATOM	1772	CA CB	LYS A 224		8.285	36.443	56.766	1.00 24.71	6
ATOM	1773 1774				8.563	35.500	55.619		6
MOTA MOTA	1775				7.737				6
ATOM	1776		LYS A 224		8.065				6 7
ATOM	1777		LYS A 224		7.198				6
ATOM	1778		LYS A 224		.8.702				8
ATOM	1779	0	LYS A 224		7.999	36.780			7
ATOM	1780		GLY A 225		9.124 8.777				6
atom	1781		GLY A 225		9.396				, 6
ATOM	1782	C	GLY A 225	• .	9.390			· · · · ·	

		× 225	9.068	39.861	62.271	1.00 31.20	8
MOTA	1783 0	GLY A 225	10.299	38.216	61.338	1.00 32.86	7
MOTA	1784 N	LEU A 226		37.877		1.00 34.55	6
ATOM	1785 C	A LEU A 226	10.975			1.00 34.46	6
ATOM		B LEU A 226	12.149	36.958		1.00 34.48	6
		G LEU A 226	12.982	36.413		1.00 33.18	6
MOTA	1788	D1 LEU A 226	12.146	35.425			6
MOTA		D2 LEU A 226	14.207	35.724		1.00 31.39	
MOTA			11.481	39.160		1.00 36.29	6
MOTA	1790		12.156	39.970		1.00 33.87	8
MOTA	1791		11.131	39.358	64.531	1.00 37.31	7
MOTA			11.592	40.536	65.279	1.00 37.26	6
MOTA		A ASN A 227	10.444	41.212	66.053	1.00 35.57	6 .
MOTA		B ASN A 227	9.920	40.368	67.208	1.00 36.07	6
MOTA		G ASN A 227	10.678	39.940	68.089	1.00 35.08	8
MOTA	1796	DD1 ASN A 227	8.611	40.143	67.218	1.00 32.33	7
MOTA	1797	ND2 ASN A 227		40.096	66.259	1.00 37.95	6
ATOM	1798	C ASN A 227	12.688	38.890	66.473	1.00 37.08	8
MOTA	1799	O ASN A 227	12.869	41.063	66.832	1.00 36.07	7
ATOM	1800	N ASP A 228	13.403		67.751	1.00 37.63	6
ATOM	1801	CA ASP A 228	14.505	40.754	68.486	1.00 36.48	6
ATOM	1802	CB ASP A 228	14.996	42.007	67.545	1.00 37.52	6
ATOM	1803	CG ASP A 228	15.480	43.088		1.00 35.28	8
MOTA	1804	OD1 ASP A 228	15.936	42.752	66.427	1.00 39.01	8
MOTA	1805	OD2 ASP A 228	15.426	44.274	67.937	1.00 37.56	6
ATOM	_	C ASP A 228	14.204	39.678	68.783	1.00 37.30	8
		O ASP A 228	14.921	38.678	68.869	1.00 38.37	7
MOTA MOTA		N ASN A 229	13.155	39.889	69.572	1.00 37.49	6
ATOM	1809	CA ASN A 229	12.766	38.935	70.605	1.00 37.38	6
	1810	CB ASN A 229	11.422	39.352	71.200	1.00 37.38	6
MOTA	1811	CG ASN A 229	11.490	40.709	71.877	1.00 40.47	8
ATOM	1812	OD1 ASN A 229	12.041	40.840		1.00 41.76	7
MOTA	1813	ND2 ASN A 229	10.960	41.735		1.00 30.30	6
MOTA	1814	C ASN A 229	12.680	37.530		1.00 37.64	8
MOTA	1815	O ASN A 229	13.446	36.634		1.00 35.76	7
ATOM		N GLU A 230	11.758	37.351		1.00 36.01	6
ATOM	1816	CA GLU A 230	11.574	36.062		1.00 34.74	
MOTA	1817	CB GLU A 230	10.753	36.242		1.00 35.55	6 6
MOTA	1818	CG GLU A 230	9.382	36.820		1.00 36.95	6
MOTA	1819	CD GLU A 230	8.580	36.960		1.00 35.30	
MOTA	1820	OE1 GLU A 230	9.042			1.00 36.98	8 8
MOTA	1821	OE2 GLU A 230	7.490	36.361	66.065	1.00 36.71	
MOTA	1822	C GLU A 230	12.916		68.082	1.00 33.92	6
MOTA	1823	O GLU A 230	13.143	34.238	68.346	1.00 32.74	8 7
ATOM	1824	N PHE A 231	13.804	36.207		1.00 32.03	6
ATOM	1825	CA PHE A 231	15.116	35.712	2 67.123	1.00 30.55	6
MOTA	1826	CB PHE A 231	15.932	36.82	1 66.460	1.00 33.86	6
MOTA	1827		17.295	36.38	1 66.012	1.00 36.97	
ATOM	1828 1829	CD1 HE A 231	17.438		4 65.102	1.00 40.41	6
MOTA	-	CD2 .HE A 231	18.436		1 66.480	1.00 36.58	6
ATOM	1830	CE1 PHE A 231	18.709		2 64.661	1.00 43.00	6
MOTA	1831	CE2 PHE A 231	19.71			1.00 39.07	6
MOTA	1832		19.84		6 65.137		6
MOTA	1833		15.83		2 68.376		6
ATOM	1834	077	16.17		2 68.497	1.00 29.66	8
ATOM	1835	O PHE A 231	16.04		2 69.310		7
MOTA	1836	N LEU A 232	16.74		7 70.556	1.00 22.82	6
ATOM	1837	CA LEU A 232	16.72			1.00 24.96	6
ATOM		CB LEU A 232	17.50			1.00 29.34	6
ATOM	1839	CG LEU A 232	17.31			1.00 24.38	6
MOTA	1840	CD1 LEU A 232	18.99			1.00 27.39	6
MOTA	1841	CD2 LEU A 232	16.15		_	1.00 22.44	. 6
ATOM	1842	C LEU A 232	16.13			1.00 20:37	8
ATOM		O LEU A 232	14.82			1.00 24.81	. 7
ATOM	1844	N PHE A 233	14.02			1.00 25.81	. 6
ATOM		CA PHE A 233				1.00 24.37	6
ATOM		CB PHE A 233	12.62			7 1.00 24.18	3 6
ATOM		CG PHE A 233	11.81				9 6
500		CD1 PHE A 233	11.49	1 36.2	·- · · · · · · · · · · · · · · · · · ·	-	

MOTA

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71.284 1.00 25.75 31.397 11.339 CD2 PHE A 233 1849 ATOM 1.00 25.33 6 73.974 31.198 10.698 CE1 PHE A 233 1850 MOTA 71.747 6 1.00 24.02 10.548 30.327 CE2 PHE A 233 1851 MOTA 73.093 1.00 22.77 6 30.232 10.228 PHE A 233 CZ 1852 MOTA 71.275 1.00 26.64 6 32.133 PHE A 233 14.661 1853 С MOTA 1.00 28.34 71.971 31.209 15.094 PHE A 233 1854 0 ATOM-1.00 27.27 69.949 32.087 14.624 ALA A 234 1855 Ν MOTA 6 69.209 1.00 30.24 30.921 15.080 ALA A 234 1856 CA MOTA 1.00 33.38 67.720 31.107 14.797 ALA A 234 1857 CB MOTA 1.00 30.76 6 69.433 30.645 16.563 ALA A 234 1858 С MOTA 1.00 30.04 29.491 69.488 16.981 ALA A 234 1859 0 1.00 31.84 MOTA 69.563 69.790 31.695 17.363 LEU A 235 1860 N MOTA 1.00 32.83 18.789 31.486 LEU A 235 CA 1861 MOTA 69.703 1.00 34.12 6 32.819 19.548 LEU A 235 CB 1862 MOTA 6 1.00 36.33 21.039 32.745 69.316 LEU A 235 1863 CG MOTA 69.205 1.00 36.44 6 21.625 34.156 CD1 LEU A 235 1864 MOTA 1.00 35.64 6 70.330 31.939 21.803 CD2 LEU A 235 1865 1.00 30.75 MOTA 30.846 71.176 18.970 **LEU A 235** ATOM 1866 С 1.00 30.12 71.312 19.648 29.835 **LEU A 235** 1867 0 MOTA 1.00 29.03 7 72.192 18.347 31.435 GLU A 236 1868 N ATOM 6 1.00 33.32 73.561 30.931 18.418 **GLU A 236** CA 1869 ATOM 1.00 35.06 74.452 17.479 31.730 **GLU A 236** 1870 CB ATOM 1.00 42.35 33.176 74.635 17.843 **GLU A 236** 1871 CG MOTA 1.00 47.12 34.022 74.843 16.610 **GLU A 236** 1872 CD MOTA 1.00 48.91 8 75.556 33.557 OE1 GLU A 236 15.686 1873 1.00 49.07 ATOM 74.297 16.572 35.150 OE2 GLU A 236 1874 ATOM 1.00 34.65 6 73.639 17.988 29.473 GLU A 236 1875 MOTA C 1.00 30.43 28.593 74.116 GLU A 236 18.715 0 1876 MOTA 1.00 35.67 73.176 16.767 29.250 LYS A 237 1877 N 16.138 ATOM 6 73.175 27.943 1.00 35.51 LYS A 237 1878 CA ATOM 1.00 37.01 72.452 14.791 28.060 LYS A 237 1879 CB MOTA 72.848 1.00 39.65 13.745 27.032 LYS A 237 1880 CG MOTA 1.00 40.66 6 73.821 27.605 12.712 LYS A 237 1881 CD MOTA 1.00 40.58 28.054 75.153 13.312 LYS A 237 1882 CE MOTA 7 76.083. 1.00 32.05 28.556 12.250 LYS A 237 NZ 1.00 35.07 1883 MOTA 6 72.485 17.025 26.891 LYS A 237 1884 С MOTA 8 73.061 1.00 30.60 17.315 25.833 LYS A 237 0 1885 1.00 33.59 ATOM 27.200 71.259 SER A 238 17.455 1886 N MOTA 1.00 32.18 26.293 70.452 18.279 SER A 238 1887 CA MOTA 1.00 32.01 69.042 26.867 18.453 SER A 238 CB 1888 MOTA 69.075 1.00 37.80 28.168 SER A 238 SER A 238 19.014 1889 OG MOTA 1.00 31.94 71.032 25.928 19.650 1890 C 1.00 26.88 MOTA 24.758 70.990 SER A 238 20.064 1891 О MOTA 1.00 31.19 7 71.564 26.920 20.357 **LEU A 239** 1892 Ν 1.00 30.82 6 ATOM 72.147 26.650 21.660 **LEU A 239** 1893 CA 1.00 28.03 MOTA 72.720 22.293 27.914 **LEU A 239** CB 1894 1.00 24.31 MOTA (71.817 29.087 CG LEU A 239 CD1 LEU A 239 22.650 1895 1.00 24.63 ATCM 72.695 30.189 23.210 1896 1.00 23.11 MOTA 70.770 28.681 23.663 CD2 LEU A 239 1897 ATOM 73.275 1.00 31.99 21.463 25.666 LEU A 239 1898 C. ATOM 1.00 32.57 8 73.473 24.764 22.279 **LEU A 239** 1899 0 1.00 33.86 7 ATOM 74.009 25.835 20.367 **GLU A 240** 1900 N 1.00 38.61 MOTA 75.136 6 24.965 20.094 GLU A 240 1901 CÀ 1.00 43.21 6 ATOM 75.842 25.369 18.799 GLU A 240 CB 1902 ATOM 1.00 53.52 6 77.045 24.468 18.500 **GLU A 240** CGATOM 1903 1.00 56.39 6 78.022 24.383 19.677 GLU A 240 CD 1904 8 ATCM 1.00 57.81 78.701 25.399 19.969 CE1 GLU A 240 1905 1.00 55.12 8 ATOM 78.093 23.304 20.318 OE2 GLU A 240 ATOM 1906 1.00 39.28 74.722 23.507 20.033 GLU A 240 С 1907 1.00 38.83 MOTA 8 75.437 22.630 **GLU A 240** 20.532 1908 0 7 1.00 40.74 ATOM 19.423 73.567 23.252 ILE A 241 1909 N 1.00 38.08 6 ATOM 73.035 19.310 21.896 ILE A 241 1910 CA1.00 33.57 6 MOTA 21.871 71.734 18.465 ILE A 241 CB 1911 1.00 31.39 ATOM 71.086 18.536 20.506 CG2 ILE A 241 1912 1.00 31.06 ATCM 22.226 72.056 17.012 CG1 ILE A 241 1913 1.00 27.53 ATOM 16.147 70.843 22.478 CD1 ILE A 241 1914

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										1.00 3	0 56	6
	1915 C	TT	E A 241		20.	713	21.3		72.747			8
ATOM		. 77	E A 241		20.	984	20.1		72.936	1.00 4		
ATOM		1 1	L A 242			605	22.2	54 '	72.299	1.00 4		7
MOTA	1917 N		L A 242			979	21.8		72.015	1.00 4	5.09	6
ATOM	1918 C	A VA	L A 242				22.9		71.329	1.00 4		6
ATOM	1919 C	B VA	L A 242			. 808				1.00 4		6
		G1 V	AL A 242		25	. 242	22.4		71.116			6
ATOM			AL A 242		23	.182	23.3		69.991	1.00 4		
MOTA			AL A 242		23	. 698	21.4	53	73.300	1.00 4		6
MOTA	1922 C	, V/	TU A 232			.191	20.3	31	73.423	1.00 4		8
ATOM	1923 C) \(\lambda \)	AL A 242			.750	22.3		74.259	1.00 4	14.60	7
ATOM	1924 N	1 L	YS A 243				22.0		75.513	1.00 4		6
ATOM	1925 C	CA L	YS A 243			. 427			76.527	1.00		6
ATOM		B L	YS A 243			.214	23.2	-		1.00		6
			YS A 243		25	.061	23.0		77.795	1.00	54.JU	6
ATOM			YS A 243		24	. 652	23.9	934	78.939	1.00	58.95	
ATOM		- I	YS A 243		24	.782	25.3	399	78.577	1.00		6
MOTA		CE L	YS A 243			.274	26.2	283	79.676	1.00		7
ATOM		NZ L	15 A 243			.965	20.		76.135	1.00		6
MOTA		C L	YS A 243			.735	20.		76.845	1.00	46.39	8
ATOM	1932 (O L	YS A 243				20.		75.878	1.00	47.51	7
ATOM	1933	N G	LU A 244			.716			76.429	1.00	51 33	6
ATOM	1934	CA G	LU A 244		22	.172	19.		76.259	1 00	54.49	6
ATOM		CB G	LU A 244		20	.650	19.			1.00	62.61	6
			LU A 244		19	.843	20.		76.842	1.00	62.01	
ATOM		CD G	LU A 244		18	3.360	20.	089	76.489	1.00	65.15	6
MOTA		CD G	LU A 244			1.572	20.	980	76.888	1.00	66.49	8
MOTA		OFI G	LU A 244			7.986	19.		75.807	1.00	64.82	8
ATOM			,LU A 244			2.745		936	75.698	1.00	50.17	6
MOTA	1940		LU A 244			2.866		846	76.259	1.00	51.54	8
ATOM	1941	0	LU A 244					148	74.441		47.70	7
ATOM	1942		/AL A 245			3.104			73.611		45.43	6
ATOM	1943	CA \	/AL A 245	•		3.587		063	72.336	1 00	48.47	6
ATOM	1944	CB \	JAL A 245	,		2.704		980		3.00	51.87	6
	1945	CG1 V	JAL A 245	5	2	3.082		765	71.499	1.00	31.07	6
MOTA		CC2 1	JAL A 245	5	2	1.226	16.	934	72.731		45.65	
ATOM	1946	C 1	VAL A 245	,		5.056	17.	070	73.185		43.01	6
MOTA	1947		VAL A 245			5.620	16.	.005	72.946		39.28	8
ATOM	1948	0 7	VAL A 24	-		5.682		245	73.109	1.00	40.53	7
MOTA	1949	N :	PHE A 240	2		7.063		321	72.633	1.00	38.56	6
ATOM	1950	CA	PHE A 24	5				.700	71.154		36.85	6
ATOM	1951		PHE A 24			7.023			70.415		36.46	6
ATOM	1952		PHE A 24		2	8.315	18	. 487	70.098		32.95	6
ATOM	1953	CD1	PHE A 24	6		8.749		.201			35.51	6
	1954	CD2	PHE A 24	6	2	9.064	19	. 582	69.967		33.80	6
ATOM	1955		PHE A 24		2	9.903		.004	69.337			6
ATOM			PHE A 24		3	0.222	19	.397	69.206		34.46	
MOTA	1956	CE2	PHE A 24	6		0.640		.103	68.889		35.54	6
ATOM	1957	CZ	PHE A 24	6		7.970		.311	73.371	. 1.00	40.83	6
ATOM	1958		PHE A 24	_		7.613		.478	73.549	1.00	40.32	8
ATOM	1959	0	PHE A 24			9.141		.839	73.802	1.00	42.54	7
ATOM	1960	N	GLU A 24	<u>′</u>	_	7.141		.695	74.46		43.93	6
MOTA	1961	CA	GLU A 24	7		0.128		.075	75.770	1.00	45.67	6
ATOM	1962	CB	GLU A 24	7		0.655		242			51.63	6
ATOM	1963	CG	GLU A 24	7		29.763		.243			57.42	
ATOM	1964	CD	GLU A 24	7		28.478		.424			62.12	
	1965	OF1	GLU A 24	7	7	27.645		.644			02.12	
ATOM		OE2	GLU A 24	7	- 1	28.29	6 17	.557			59.43	
ATOM	1966		GLU A 24	7		31.26		.839	73.46	4 1.00	43.62	6
ATOM	1967	C	GLU A 44	7		32.07		.931	73.29		44.25	8
MOTA	1968	0	GLU A 24			31.34		.988		0 1.00	0 43.65	7
ATOM	1969	N	PRO A 24	8				2.143		3 1.0	0 42.73	6
ATOM	1970	CD	PRO A 24	8		30.43	-				0 43.28	3 6
ATOM		CA	PRO A 24	18		32.37		1.260			0 43.03	
ATOM		CB	PRO A 24	18		31.80		2.480			0 43.02	
		CG	PRO A 2	18		30.31	7 22	2.474		_	0 43.37	
ATOM		c	PRO A 2	18		33.75		1.552		_	O 45 4.	
ATOM		0	PRO A 2	48		33.89	6 23	2.286			0 45.44	
ATOM			GLU A 2	49		34.78		0.982	2 71.71	_	0 42.3	-
ATOM	1976	N	GLU A 2	49		36.15		1.26	3 72.13		0 41.5	6 6
ATOM		CA	GLU A 2	4 O		37.14		0.27		8 1.0	0 42.0	6 6
ATOM	1978	CB	GLU A 2	40		36.93		8.81			0 44.2	8 6
ATOM	1979	CG	GLU A 2	40		38.01	5 1	7.90		_	0 44.7	
ATOM		CD	GLU A 2	47		נט.סנ	. J	50				
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ATOM 1990 C VAL A 250														
1982 OE2 OE2 OE3 A 249 38	. mov	1001	OF1	GLU A 249	•	38.	208	17.	938	70.0	54			
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ATOM 2016 CD1 LEU A 253 27.849 32.220 65.860 1.00 22.29 6 ATOM 2017 CD2 LEU A 253 29.395 33.716 67.145 1.00 22.90 6 ATOM 2018 C LEU A 253 30.539 31.901 63.198 1.00 20.05 6 ATOM 2019 O LEU A 253 31.466 32.691 62.987 1.00 18.17 8 ATOM 2020 N GLN A 254 29.544 31.720 62.340 1.00 19.40 7 ATOM 2021 CA GLN A 254 29.544 31.720 62.340 1.00 19.40 7 ATOM 2022 CB GLN A 254 29.017 31.592 59.969 1.00 9.67 6 ATOM 2023 CG GLN A 254 27.584 31.713 59.601 1.00 18.43 6 ATOM 2024 CD GLN A 254 27.584 31.713 59.601 1.00 18.43 6 ATOM 2025 OEI GLN A 254 27.917 32.677 57.450 1.00 22.54 8 ATOM 2026 NE2 GLN A 254 26.564 33.769 58.869 1.00 22.89 7 ATOM 2026 NE2 GLN A 254 26.564 33.769 58.869 1.00 22.89 7 ATOM 2027 C GLN A 254 28.520 33.634 61.444 1.00 19.75 6 ATOM 2028 O GLN A 254 27.470 33.415 62.060 1.00 18.77 8 ATOM 2030 CA LEU A 255 28.905 34.854 61.067 1.00 23.02 7 ATOM 2030 CA LEU A 255 28.963 36.993 62.242 1.00 26.84 6 ATOM 2031 CB LEU A 255 29.226 36.506 64.456 1.00 29.34 6 ATOM 2033 CD1 LEU A 255 29.226 36.506 64.456 1.00 29.34 6 ATOM 2035 C LEU A 255 27.902 36.506 64.456 1.00 29.34 6 ATOM 2036 C LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 24.94 8 ATOM 2038 CA GLY A 256 26.969 36.158 59.254 1.00 24.94 8 ATOM 2039 C GLY A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 27.11 6 ATOM 2038 CA GLY A 256 26.969 36.158 59.254 1.00 27.98 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2037 N GLY A 256 26.408 36.858 58.117 1.00 22.89 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 22.89 7 ATOM 2037 N GLY A 256 26.408 36.858 58.117 1.00 22.89 7 ATOM 2037 N GLY A 256 26.408 36.858 58.117 1.00 22.89 7 ATOM 2037 N GLY A 256 26.408 36.858 58.117 1.00 22.89 7 ATOM 2037 C GLY A 256 26.408 36.858 58.117 1.00 22.89 6 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 22.89 6 ATOM 2034 CB THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2				LEU A 25	3			32	.942					6
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ATOM 2020 N GLN A 254		2018	C	LEU A 25	53					63.	198			
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ATOM 2024 CD GLN A 254 27.368 32.766 58.549 1.00 19.97 8				GLN A 25	54					59.	601			
ATOM 2025 OE1 GLN A 254 26.564 33.769 58.869 1.00 22.89 7 ATOM 2026 NE2 GLN A 254 28.520 33.634 61.444 1.00 19.75 6 ATOM 2028 O GLN A 254 27.470 33.415 62.060 1.00 18.77 8 ATOM 2029 N LEU A 255 28.905 34.854 61.067 1.00 23.02 7 ATOM 2030 CA LEU A 255 28.905 34.854 61.067 1.00 23.77 6 ATOM 2031 CB LEU A 255 28.963 36.993 62.242 1.00 26.84 6 ATOM 2032 CG LEU A 255 29.226 36.556 63.684 1.00 29.34 6 ATOM 2033 CD1 LEU A 255 29.226 36.556 63.684 1.00 29.34 6 ATOM 2033 CD1 LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2035 C LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2039 C GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 O GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 C GLY A 256 25.506 37.956 58.644 1.00 27.98 6 ATOM 2040 C GLY A 256 25.506 37.956 58.644 1.00 27.98 6 ATOM 2044 CA THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 CA THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.002 41.895 57.232 1.00 28.39 6				GLN A 2	54	27	7.368					1.00	19.97	
ATOM 2026 NE2 GLN A 254 28.520 33.634 61.444 1.00 19.75 6 ATOM 2027 C GLN A 254 28.520 33.634 61.444 1.00 19.75 6 ATOM 2028 O GLN A 254 27.470 33.415 62.060 1.00 18.77 8 ATOM 2029 N LEU A 255 28.905 34.854 61.067 1.00 23.02 7 ATOM 2030 CA LEU A 255 28.913 36.052 61.369 1.00 23.77 6 ATOM 2031 CB LEU A 255 28.963 36.993 62.242 1.00 26.84 6 ATOM 2031 CB LEU A 255 29.226 36.556 63.684 1.00 29.34 6 ATOM 2033 CD1 LEU A 255 30.196 37.520 64.331 1.00 30.65 6 ATOM 2033 CD1 LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2030 CB THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATOM 2043 CB THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATOM 2044 OG1 THR A 257 25.517 40.244 58.536 1.00 29.28 6 ATOM 2044 OG1 THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.606 41.541 59.510 1.00 26.45 6			OE:	1 GLN A 2	54							1.00	22.54	
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ATOM 2030 CA LEU A 255 28.132 36.052 61.369 1.00 23.77 6 ATOM 2031 CB LEU A 255 28.963 36.993 62.242 1.00 26.84 6 ATOM 2032 CG LEU A 255 29.226 36.556 63.684 1.00 29.34 6 ATOM 2033 CD1 LEU A 255 30.196 37.520 64.331 1.00 30.65 6 ATOM 2033 CD1 LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.94 8 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2041 N THR A 257 24.742 37.734 59.584 1.00 25.67 8 ATOM 2042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.666 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.668 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.668 41.541 59.510 1.00 26.45 6				GLN A 2	54									
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ATOM 2032 CG LEU A 255 29.226 36.556 63.684 1.00 29.34 6 ATOM 2033 CD1 LEU A 255 30.196 37.520 64.331 1.00 30.65 6 ATOM 2033 CD2 LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 26.408 36.858 58.117 1.00 27.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 O GLY A 256 24.742 37.734 59.584 1.00 27.85 7 ATOM 2041 N THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.666 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.668 41.541 59.510 1.00 26.45 6				TEU A 2	55 55	_						1.00	26.84	
ATOM 2033 CD1 LEU A 255 30.196 37.520 64.331 1.00 30.65 6 ATOM 2034 CD2 LEU A 255 27.902 36.506 64.456 1.00 28.42 6 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2039 C GLY A 256 24.742 37.734 59.584 1.00 25.67 8 ATOM 2041 N THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATOM 2042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 28.39 6				LEU A 2	55					63	. 684	1.00	29.34	
ATOM 2034 CD2 LEU A 255 27.902 36.506 64.456 1.00 28.42 8 ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.84 6 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 O GLY A 256 24.742 37.734 59.584 1.00 25.67 8 ATOM 2041 N THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATOM 2042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 28.39 6				_	55				7.520	64	.331			
ATOM 2035 C LEU A 255 27.605 36.842 60.197 1.00 24.94 8 ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 24.94 8 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 O GLY A 256 24.742 37.734 59.584 1.00 25.67 8 ATOM 2041 N THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATOM 2042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 28.39 6				2 LEU A 2	55	2	7.902			64	.456			6
ATOM 2036 O LEU A 255 27.774 38.066 60.149 1.00 25.07 7 ATOM 2037 N GLY A 256 26.969 36.158 59.254 1.00 25.07 7 ATOM 2038 CA GLY A 256 26.408 36.858 58.117 1.00 26.11 6 ATOM 2039 C GLY A 256 25.506 37.956 58.644 1.00 27.11 6 ATOM 2040 O GLY A 256 24.742 37.734 59.584 1.00 25.67 8 ATOM 2041 N THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATOM 2042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 2043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 2044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2045 CG2 THR A 257 26.668 41.541 59.510 1.00 26.45 6 ATOM 2045 CG2 THR A 257 26.668 41.541 59.510 1.00 28.39 6				LEU A 2	55									8
ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2039 C GLY A 256 ATOM 2040 O GLY A 256 ATOM 2041 N THR A 257 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2043 CB THR A 257 ATOM 2044 CB THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 ATOM 2048 CG2 THR A 257 ATOM 2048			0	LEU A 2	55					50	.149			7
ATOM 2038 CA GLY A 256 25.408 30.838			N										26.11	
ATOM 2039 C GLY A 256 24.742 37.734 59.584 1.00 25.67 8 24.742 37.734 59.584 1.00 27.85 7 25.599 39.150 58.072 1.00 27.85 7 25.599 39.150 58.072 1.00 27.85 7 25.599 39.150 58.072 1.00 27.85 7 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 6 25.590 29.28 25.590 29.	MOTA			GLY A 2	56								27.11	6
ATCM 1040 O GLY A 250 25.599 39.150 58.072 1.00 27.85 7 ATCM 1041 N THR A 257 25.599 39.150 58.072 1.00 27.85 7 ATCM 1042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATCM 1043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATCM 1044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATCM 1045 CG2 THR A 257 26.666 41.541 59.510 1.00 26.45 6 ATCM 1045 CG2 THR A 257 23.477 40.392 57.722 1.00 28.39 6												1.00	25.67	8
ATOM 1042 CA THR A 257 24.757 40.244 58.536 1.00 29.28 6 ATOM 1043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 6 ATOM 1044 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 1045 CG2 THR A 257 26.686 41.541 59.510 1.00 26.45 6 ATOM 1045 CG2 THR A 257 23.477 40.392 57.722 1.00 28.39 6												1.00	27.85	
ATOM 1043 CB THR A 257 25.517 41.597 58.545 1.00 27.98 c								4	0.244	58	.536	1.00		5
ATOM 2344 OG1 THR A 257 26.002 41.895 57.232 1.00 31.91 8 ATOM 2345 CG2 THR A 257 26.686 41.541 59.510 1.00 26.45 6 ATOM 2345 CG2 THR A 257 23.477 40.392 57.722 1.00 28.39 6			_			2	5.517		1.597					
ATOM 2045 CG2 THR A 257 26.686 41.541 59.510 1.00 26.43 6				1 THR A 2	57	2	6.002	. 4	1.895	57				
$\frac{1}{2}$				2 THR A 2	57									
	ATOM			THR A 2	157	2	3.477	7 4	10.392	5/	. 122	1.00	0.33	

					_							
> mox	2047	0	THR A	257		22.74	7 4	11.370	57.879	1.00 29	.49	8
ATOM	_	N	ASP A			23.19	2 3	39.414	56.867	1.00 29		7
MOTA		CA	ASP A			21.97	7	39.471	56.065	1.00 30		6
ATOM		CB	ASP A	258		22.00		38.432	54.933	1.00 28	.22	6
MOTA		CG	ASP A			22.33		37.033	55.416	1.00 29		6
MOTA			ASP A			21.89		36.653	56.520	1.00 30		8
MOTA	2052	ODI	ADP A	250		23.01	-	36.292	54.667	1.00 29	.97	8
ATOM		-	ASP A	230		20.64		39.355	56.826	1.00 30	.50	6
MOTA	2054	C	ASP A			19.60		39.622	56.248	1.00 32		8
MOTA	2055	0	ASP A			20.65		38.912	58.101	1.00 30		7
MOTA	2056	N	PRO A			21.71		38.338	58.952	1.00 33		6
ATOM	2057	CD	PRO A		-	19.36		38.821	58.806	1.00 31		6
MOTA	2058	CA	PRO A	259		19.70		37.912	59.987	1.00 31	.87	6
MOTA	2059	СВ	PRO A			21.06		38.373	60.333	1.00 31		6
MOTA	2060	CG	PRO A			18.81		40.184	59.260	1.00 30		6
MOTA	2061	C	PRO A			17.73		40.270	59.84-5	1.00 29		8 .
ATOM	2062	0	PRO A			19.56		41.245	58.980	1.00 29		7
MOTA	2063	N	LEU A	260		19.16		42.592	59.375	1.00 29		6
MOTA	2064	CA	LEU A		•	20.36		43.542	59.275	1.00 27	7.14	6
ATOM	2065	CB	LEU A			21.54		43.286	60.234	1.00 22	2.17	6
ATOM	2066	CG	LEU A			22.79		43.919	59.684	1.00 19	5.79	6
MOTA	2067	CDI	LEU A	260		21:2		43.793	61.633	1.00 16	5.25	6
MOTA	2068		LEU A	260		17.9		43.165	58.576	1.00 28	8.09	6
MOTA	2069	С	LEU A			17.7		42.834	57.410	1.00 29		8
ATOM	2070	0	LEU A			17.2		44.044	59.223	1.00 29	9.29	7
ATOM	2071	N CA	LEU A	261		16.0		44.693	58.596	1.00 2		6
MOTA	2072 2073	CB	LEU A			15.5		45.788	59.513	1.00 2		6
MOTA	2074	CG	LEU A	261		14.4		46.664	58.950	1.00 2	8.14	6
MOTA MOTA	2075		LEU A	261		13.1	44	45.819	58.803	1.00 2		6
ATOM	2076	CD2	LEU A	A 261		14.1	39	47.859	59.882	1.00 2	5.45	6
ATOM	2077	C	LEU-	A 261		16.4		45.322	57.259	1.00 2		6 8
ATOM	2078	0	LEU A	A 261		15.7		45.198	56.295	1.00 3 1.00 3	1.0/	7
ATOM	2079	N	GLU Z	A 262		17.6		45.998	57.201	1.00 3		6
ATOM	2080	CA		A 262 .		18.0		46.664	55.973	1.00 3	0 34	6
ATOM	2081	CB		A 262		19.0		47.758	56.279 57.086	1.00 2	8 52	6
MOTA	2082	CG		A 262		18.4		48.931	58.589	1.00 2		6
MOTA	2083	CD		A 262		18.4		48.687 47.548	59.029	1.00 3	012	8
MOTA	2084	OE:		A 262		18.1 18.6		49.661	59.338	1.00.2	7.69	8
MOTA	2085	OE:	GLU.	A 262		18.5		45.754	54.857	1.00 3	4.29	6
MOTA	2086	C	GLU.	A 262 A 262		18.6		46.199	53.722	1.00 3		8
ATOM	2087	0	GLU.	A 263		18.7		44.486	55.158	1.00 3	6.55	7
ATOM	2088	N CA		A 263		19.2		43.582	54.117	1.00 3		6
ATOM	2089	CB		A 263		20.3		42.672	54.641	1.00 3	88.42	6
ATOM	2090 2091	CG	ASP	A 263		20.9		41.847	53.538			6
ATOM	2092		1 ASP			22.0	064	11.263	53.762			8
MOTA MOTA	2093	OD:	2 ASP	A 263		20.3		11.779			39.50	8
ATOM	2094	C C	ASP	A 263		18.0	046	2.775			12.83	6
MOTA	2095	ō	ASP	A 263		17.4	174	41.966			44.22	8 7
MOTA	2096	N	TYR	A 264		17.6	573	43.002				6
ATOM	2097	CA	TYR	A 264		16.5		42.357				6
ATOM	2098	СВ	TYR	A 264		16.0		43.149			63 02	6
MOTA	2099	ÇG		A 264		16.8		42.939				6
MOTA	2100	CD		A 264		16.		41.897				6
ATOM	2101	CE		A 264		17.3		41.709			66 23 '	6
ATOM	2102	CD		A 264		17.		43.786		_	68 63	6
MOTA	2103	CE		A 264		18.		43.606			69.08	6
ATOM	2104	CZ		A 264		18.	279.	42.570			69.01	8
ATOM	2105	OH	TYR	A 264				42.411			43.89	6
ATOM	2106	C		A 264		16.		40.888			44.80	8
MOTA	2107	0		A 264		15.		40.189			40.37	7
ATOM	2108	N		A 265		.17.		40.400 38.98			38.06	6
ATOM	2109			A 265		18. 19.		38.54			33.48	6
ATOM	2110			A 265			905	39.21	·	2 1.00	32.43	6
ATCM	2111	_	LEU	A 265			176	38.53			26.97	6
ATOM	2112	CI	العن ير	A 203				,_,	•			
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								3 00 34 41	6
ATOM	2113	CD2	LEU A 265		18.828	38.954		1.00 34.41	
		c	LEU A 265		17.665	38.131	52.219	1.00 37.41	6
MOTA					18.125	37.000	52.370	1.00 37.96	8
MOTA	2115	0	LEU A 265				53.066	1.00 36.21	7
MOTA	2116	N	SER A 266		16.804	38.694			6
ATOM	2117	CA	SER A 266		16.294	38.013	54.253	1.00 36.46	
			SER A 266		17.263	38.136	55.427	1.00 37.22	6
ATOM -	2118	CB			17.190	39.440	55.991	1.00 37.41	8
ATOM	2119	OG	SER A 266				54.653	1.00 35.55	6
MOTA	2120	C	SER A 266		14.997	38.705			
	2121	0	SER A 266		14.889	39.927	54.568	1.00 37.09	8
MOTA			LYS A 267		14.018	37.928	55.093	1.00 34.33	7
ATOM	2122	N				38.493	55.532	1.00 36.13	6
MOTA	2123	CA	LYS A 267		12.750		55.183	1.00 36.11	6
ATOM	2124	CB	LYS A 267		11.596	37.548			
	2125	CG	LYS A 267	•	11.503	37.222	53.705-	1.00 36.79	6
ATOM			LYS A 267		11.453	38.487	52.869	1.00 38.55	6
MOTA	2126	CD				38.170	51.389	1.00 41.60	6
ATOM	2127	CE	LYS A 267		11.369	30.170	50.569	1.00 42.07	7 -
ATOM	2128	NZ	LYS A 267		11.503	39.413		1.00 34.90	6
	2129	С	LYS A 267		12.791	38.738	57.043		
MOTA			LYS A 267		11.758	38.867	57.694	1.00 37.18	8
ATOM	2130	0	DIS A 201		13.998	38.775	57.595	1.00 32.82	7
ATOM	2131	N	PHE A 268			39.021	59.016	1.00 31.50	6
ATOM	2132	CA	PHE A 268		14.192			1.00 34.05	6
ATOM	2133	CB	PHE A 268		15.477	38.337	59.495	1.00 34.03	
	2134	CG	PHE A 268		15.379	36.839	59.604	1.00 34.54	6
MOTA		CG			16.506	36.087	59.940	1.00 35.04	6
MOTA	2135		PHE A 268			36.178	59.429	1.00 34.57	6
ATOM	2136	CD2		•	14.161			1.00 35.44	6
MOTA	2137	CE1	PHE A 268		16.423	34.691	60.108		6
	2138	CE2			14.066	34.784	59.594	1.00 36.00	
ATOM			PHE A 268		15.201	34.040	59.936	1.00 34.68	6
ATOM-	2139	CZ	PRE A 200		14.319	40.530	59.190	1.00 30.94	6
MOTA	2140	С	PHE A 268				58.394	1.00 30.27	8
ATOM	2141	0	PHE A 268		14.983	41.192		1.00 32.53	7
ATOM	2142	N	ASN A 269		13.693	41.081	60.222		
		CA	ASN A 269		13.760	42.527	60.448	1.00 35.83	6
MOTA	2143		701 7 260		12.344	43.115	60.570	1.00 37.23	6
MOTA	2144	CB	ASN A 269		11.478	42.809		1.00 40.75	6
MOTA	2145	CG	ASN A 269					1.00 43.88	8
ATOM	2146	OD2	L ASN A 269		11.830	43.148	58.227		7
	2147	MD.	2 ASN A 269		10.335	42.165	59.594	1.00 39.61	
MOTA			ASN A 269		14.553	42.854	61.710	1.00 35.45	6
ATOM	2148	С	ASN A 200		14.095	43.621	62.560	1.00 41.47	8
ATOM	2149	0	ASN A 269		15.747		61.827	1.00 33.27	7
MOTA	2150	N	LEU A 270				63.004	1.00 30.68	6
MOTA	2151	CA	LEU A 270		16.571	42.510	63.004	1.00 27.41	6
	2152	CB	LEU A 270		17.638	41.431	63.114		
ATOM		CG	LEU A 270		17.140	40.002	62.988	1.00 23.76	6
ATOM	2153		DEU A 270		18.222		63.543	1.00 27.14	6
ATOM	2154		1 LEU A 270		15.855		63.772	1.00 28.00	6
ATOM	2155	CD.					_	1.00 32.30	6
ATOM	2156	С	LEU A 270		17.258		٠.	1.00 36.27	8
	2157	Ó	LEU A 270		17.347	44.554		1.00 36.27	
MOTA			SER A 271		17.749	44.207	64.216	1.00 30.33	7
MOTA	2158	N	3ER A 2/1		18.465		64.424	1.00 30.79	6
ATOM	2159	CA	SER A 271					1.00 29.53	6
ATCM	2160	CB	SER A 271		17.816				8
ATOM	2161	OG	SER A 271		17.712				6
	2162	C	SER A 271		19.911	45.109			
ATOM			SER A 271		20.194	43.972	65.172	1.00 29.64	8
MOTA	2163	0	SER A 2/1		20.821				7
ATOM	2164	И	ASN A 272						6
ATOM	2165	CA	ASN A 272		22.234				6
	2166	CB			23.036	5 47.141			9
ATOM					23.101	47.658	63.361	1.00 37.76	6
ATOM	2167	CG	ASN A 272		23.719				8
ATOM	2168		1 ASN A 272						7
MOTA	2169	ND	2 ASN A 272		22.460				6
	2170		ASN A 272		22.36				0
MOTA			ASN A 272		22.97	0 44.283			.8
ATOM	2171		1111 Y 272		21.80		67.257	1.00 33.22	7
MOTA	2172		VAL A 273						6
ATOM	2173	CA	VAL A 273		21.83				6
ATOM	2174	CE			20.92		69.481		6
	2175		1 VAL A 273		20.98		6 70.964		
ATCM			2 VAL A 273		21.35			1.00 38.88	6
ATOM	2176	_	26 AWP W #12		21.41			g 1.00 34.26	6
ATCM	2177		VAL A 273						8
ATCM	2178	0	VAL A 273		22.06	0 43.58	*		

						co oco	1.00 32.36	7
ATCM	2179	N	ALA A 274	20.328	43.889	68.262		6
	2180	CA	ALA A 274	19.834	42.521	68.385	1.00 31.09	
ATCM			ALA A 274	18.574	42.356	67.578	1.00 28.88	6
ATCM	2181	CB	ALA A 273	20.923	41.588	67.861	1.00 31.74	6
ATCM	2182	C	ALA A 274		40.634	68.533	1.00 31.54	8
MOTA	2183	0	ALA A 274	21.323			1.00 30.05	7
ATCM	2184	N	PHE A 275	21.401	41.879	66.655		6
	2185	CA	PHE A 275	22.467	41.102	66.036	1.00 31.30	
ATCH			PHE A 275	22.932	41.810	64.751	1.00 31.54	6
ATCM	2186	CB	PRE A 275	23.938	41.029	63.941	1.00 31.76	6
ATCM	2187	CG	PHE A 275		39.809	63.365	1.00 32.40	6
ATCM	2188	CD1	PHE A 275	23.597		63.729	1.00 34.04	6
ATCM	2189	CD2	PHE A 275	25.219	41.529		1.00 32.27	6
	2190	CE1	PHE A 275	24.513	39.100	62.586		6
MOTA	2191	CE2		26.149	40.828	62.950	1.00 33.90	
MOTA			PHE A 275	25.793	39.613	62.378	1.00 34.50	6
MOTA	2192	CZ	PHE A 275	23.632	40.999	67.040	1.00 29.98	6
MOTA	2193	С	PHE A 275	24.252	39.950	67.200	1.00 29.41	8
ATCH	2194	0	PHE A 275		42.099	67.726	1.00 31.22	7
ATOM	2195	N	LEU A 276	23.908		68.698	1.00 32.29	6
ATCM	2196	CA	LEU A 276	24.988	42.144		1.00 33.44	6
ATOM	2197	CB	LEU A 276	25.221	43.594	69.141	1.00 33.44	6
	2198	CG	LEU A 276	26.415	43.908	70.050	1.00 36.01	
ATCM				26.683	45.391	70.025	1.00 35.02	6
ATCM	2199	CD1		26.147	43.433	71.467	1.00 39.09	6
MOTA	2200	CD2		24.682	41.244	69.894	1.00 32.79	6
ATCM	2201	С	LEU A 276			70.371	1.00 30.74	8
ATOM	2202	0	LEU A 276	25.560	40.530		1.00 33.95	7
MOTA	2203	N	LYS A 277	23.445	41.273	70.384	1.00 36.56	6
	2204	CA	LYS A 277	23.086	40.413	71.505		6
ATCM	2205	CB	LYS A 277	21.623	40.588	71.902	1.00 35.76	
ATOM	-		LYS A 277	21.343	41.842	72.687	1.00 42.31	6
ATOM	2206	CG	LYS A 277	20.743	41.508	74.049	1.00 45.72	6
MCTA	2207	CD	LYS A 277	21.665	40.601	74.865	1.00 47.87	6
ATOM	2208	CE	LYS A 277		40.378	76.244	1.00 44.36	7
ATOM	2209	NZ	LYS A 277	21.140		71.092	1.00 37.98	6
MCTA	2210	С	LYS A 277	23.302	38.974		1.00 37.54	8
	2211	Ō	LYS A 277	23.875	38.179	71.845	1.00 37.34	
ATOM	2212	N	ALA A 278	22.832	38.654	69.886	1.00 37.17	7
ATOM			ALA A 278	22.952	37.311	69.323	1.00 34.51	6
ATOM	2213	CA	ALA A 270	22.638	37.341	67.820	1.00 35.38	6
MOTA	2214	CB	ALA A 278	24.368	36.831	69.550	1.00 30.63	6
ATOM	2215	С	ALA A 278		35.790		1.00 27.62	8
MOTA	2216	0	ALA A 278	24.605			1.00 29.24	7
ATOM	2217	N	PHE A 279	25.303	37.624		1.00 31.48	6
ATCM	2218	CA	PHE A 279	26.722			1.00 33.25	6
ATCM	2219	CB		27.490			1.00 33.23	6
	2220		050	28.974	38.396		1.00 39.28	
ATOM				29.578	37.337	68.000	1.00 41.15	6
ATOM	2221			29.776		69.315	1.00 40.66	6
ATOM	2222		2 PRE A 273	30.960			1.00 44.22	6
ATOM	2223		1 PHE A 279	31.153			1.00 41.38	6
ATOM	2224	CE	2 PHE A 279					6
ATOM	2225	CZ	PHE A 279	31.750				6
ATOM	2226		PHE A 279	27.116				8
	2227		PHE A 279	27.627	35.953	70.935		
ATCM			ASN A 280	26.860				7
ATCM	2228		000	27.192		1 72.907	1.00 29.26	6
ATOM	2229		45N 4 200	26.927			1.00 30.39	6
ATCM	2230) CE	ASN A 280					6
ACOM	2231	. CG	ASN A 280	27.907				8
ATOM	2232	O	1 ASN A 280	29.11				7
			2 ASN A 280	27.39				6
ATOM			ASN A 280	26.52	4 36.68	0 73.616		
ATCM			ASN A 280	27.16		4 74.419		8
ATOM			ASN A 200	25.25			3 1.00 30.46	7
ATOM	223		ILE A 281	24.59			1.00 33.71	6
ATOM	2237	7 C	ILE A 281					6
ATOM			B ILE A 281	23.10				
ATOM			32 ILE A 281	22.54				
			31 ILE A 281	22.29				
ATOM		-	D1 ILE A 281	20.83	5 36.24			
ATCM			ILE A 281	25.33		6 73.63	1 1.00 34.06	6
ATOM	224		201	25.38			7 1.00 31.94	
MOTA	224		TLE M 201	25.89				. 7
ATOM		4 N	VAL A 282			•	•	

			-					
				CEA	32.785	72.005	1.00 36.45	6
ATOM	2245	CA .VAL A 282		. 654		70.524	1.00 35.62	6.
MOTA	2246	CB VAL A 282		.084	32.871	70.324	1.00 31.20	6
MOTA	2247	CG1 VAL A 282		.829	31.604	69.646	1.00 34.51	6
ATOM	2248	CG2 VAL A 282		. 880	33.080		1.00 37.80	6
MOTA	2249	C VAL A 282		.919	32.723	72.857	1.00 37.00	8
MOTA	2250	O VAL A 282		.182	31.722	73.532	1.00 38.45	7
MOTA	2251	N ARG A 283		. 693	33.808	72.821	1.00 40.06	6
ATOM	2252	CA ARG A 283		.929	33.884	73.587	1.00 40.00	6
ATOM	2253	CB ARG A 283		.551	35.272	73.449	1.00 39.38	6
MOTA	2254	CG ARG A 283		.974	35.625	72.027	1.00 41.90	6
MOTA	2255	CD ARG A 283		.492	37.048	71.968	1.00 41.36	7
MOTA	2256	NE ARG A 283		.647	37.206	72.840	1.00 43.35	6
ATOM	2257	CZ ARG A 283		.162	38.373	73.215	1.00 42.55 1.00 39.95	7
MOTA	2258	NH1 ARG A 283		.628	39.516	72.797	1.00 39.93	7
ATOM	2259	NH2 ARG A 283		.220	38.392	74.014		6
MOTA	2260	C ARG A 283		.614	33.587	75.044	1.00 40.01 1.00 39.01	8
ATOM	2261	O ARG A 283		.350	32.862	75.716	1.00 40.30	7
ATOM	2262	N GLU A 284		.506	34.141	75.520	1.00 40.30	6
ATOM	2263	CA GLU A 284		.084	33.923	76.894	1.00 47.53	6
ATOM	2264	CB GLU A 284		.753	34.647	77.165	1.00 56.10	6
ATOM	2265	CG GLU A 284		.875	36.176	77.090	1.00 60.77	6
ATOM	2266	CD GLU A 284		.542	36.923	77.179	1.00 61.41	8
ATOM	2267	OE1 GLU A 284		.659	36.682	76.329	1.00 61.41	8
ATOM	2268	OE2 GLU A 284		.383	37.763	78.096	1.00 62.21	6
ATOM	2269	C GLU A 284		.953	32.429	77.179	1.00 45.29	8
ATOM	2270	O GLU A 284		. 565	31.922	78.120	1.00 45.25	7
MOTA	2271	N VAL A 285		.186	31.721	76.354	1.00 34.82	6
ATOM	2272	CA VAL A 285		.975	30.288	76.551	1.00 27.74	6
MOTA	2273	CB VAL A 285		.842	29.752	75.647	1.00 27.74	6
ATOM	2274	CG1 VAL A 285		. 698	28.253	75.831	1.00 26.26	6
MOTA	2275	CG2 VAL A 285		1.545	30.433	75.982 76.341	1.00 20.20	6
ATOM	2276	C VAL A 285		3.181	29.366	77.214	1.00 33.46	ě
MOTA	2277	O VAL A 285		3.492	28.556 29.466	75.191	1.00 29.43	7
MOTA	2278	N PHE A 286		3.845 9.973	28.586	74.907	1.00 24.26	6
MOTA	2279	CA PHE A 286		9.830	27.957	73.519	1.00 22.57	6
MOTA	2280	CB PHE A 286		3.607	27.095	73.345	1.00 23.46	6
MOTA	2281	CG PHE A 286		7.409	27.639	72.885	1.00 23.90	6
MOTA	2282	CD1 PHE A 286		3.664	25.718	73.608	1.00 21.95	6
MOTA	2283	CD2 PHE A 286 CE1 PHE A 286		5.281	26.814	72.681	1.00 24.90	6
ATOM	2284	CE2 PHE A 286		7.547	24.892	73.411	1.00 18.06	6
MOTA	2285			6.357	25.437	72.945	1.00 20.23	6
ATOM	2286	CZ PHE A 286 C PHE A 286		1.368	29.200	74.991	1.00 25.14	6
MOTA	2287	O PHE A 286		2.338	28.566	74.560	1.00 23.16	8
MOTA	2288	N GLY A 287		1.480	30.416	75.525	1.00 25.51	7
MOTA	2289 229	CA GLY A 287		2.783	31.065	75.614	1.00 26.86	6
MOTA	2291	C GLY A 287		3.353	31.511	74.270	1.00 26.28	6
ATOM	2292	O GLY A 287		2.644	31.549	73.271	1.00 26.29	8
MOTA	2293	N GLU A 288	3	4.637	31.849	74.238	1.00 27.17	7
ATOM	2294	CA GLU A 288	3	5.274	32.291	72.996	1.00 33.20	6
MOTA MOTA	2295	CB GLU A 288	3	6.680	32.828	73.269	1.00 35.09	6
ATOM	2296	CG GLU A 288	3	6.726	34.104	74.083	1.00 41.67	6
ATOM	2297	CD GLU A 288		5.970	35.231	73.421	1.00 43.13	6
ATOM	2298	OE1 GLU A 288	3	6.221	35.493	72.228	1.00 45.39	8
	2299	OE2 GLU A 288	3	5.130		74.097		8
MOTA	2300	C GLU A 288		5.386		71.930	1.00 32.87	6
ATOM	2301	O GLU A 288	3	5.596		72.247	1.00 31.59	8
MOTA	2302	N GLY A 289		5.268	31.619			7
MOTA	2302	CA GLY A 289		5.373	30.698			6
ATOM	2304	C GLY A 289	3	5.948				6
ATOM	2305	O GLY A 289		6.556	32.437			5 7
ATOM	2306			5.764	30.758			
ATOM	2307		3	6.277				6
ATOM	2308			7.014				6
ATOM	2309			7.616				6
ATOM	2310	000	3	8.100	29.632	65.852	1.00 17.33	. 6

	2311 C VAL A 290	35.137 31.975 65.105 1.00 25.97 6	
MOTA MOTA	2312 O VAL A 290	34.218 31.279 64.672 1.00 22.32 8	
ATOM	2313 N TYR A 291	35.217 33.293 04.914 1.00 36.69 6	
ATOM	2314 CA TYR A 291	34,100	
ATOM	2315 CB TYR A 291	33.925 35.350 04.333	
MOTA	2316 CG TYR A 291	33.939 35.170 65.101 1.00 29 72 6	
ATOM	2317 CD1 TYR A 291	33.023 33.33	
ATOM	2318 CE1 TYR A 291	35.059 35.414 08.505 2.00	
ATOM	2319 CD2 TYR A 291	32.8/4 34.303 67.05. 1.00 31 03 6	
ATOM	2320 CE2 TYR A 291	32.030 34.3	
MOTA	2321 CZ TYR A 291 -	33.997 34.800 3.500 1.00 30 03	
ATOM	2322 OH TYR A 291	34.030 34.03	•
ATOM	2323 C TYR A 291	34,327 34,000	
ATOM	2324 O TYR A 291	35.608 34.643 02.123 =	
MOTA	2325 N LEU A 292	33.507 54.012 50 30 30 36 6	
MOTA	2326 CA LEU A 292	33.720 34.220 30.711 1.00.37 70 6	
MOTA	2327 CB LEU A 292	33.561 32.861 59.741 1.00 27.70 6 34.191 31.643 60.435 1.00 24.64 6	
MOTA	2328 CG LEU A 292	33 867 30 380 59.661 1.00 24.66 6	
ATOM	2329 CD1 LEU A 292	35 686 31 825 60.553 1.00 23.19 6	
MOTA	2330 CD2 LEU A 292 2331 C LEU A 292	32 649 35 175 59.944 1.00 25.59 6	
MOTA	200	31.640 35.394 60.611 1.00 18.11 8	
MOTA		32 869 35 749 58.770 1.00 28.55 7	
MOTA		31 878 36.653 58.223 1.00 31.26	
MOTA		30.722 35.815 57.714 1.00 34.84 0	
MOTA	200	30.463 34.724 58.234 1.00 34.11	
MOTA	2336 O GLY A 293 2337 N GLY A 294	30.036 36.312 56.689 1.00 35.34	
MOTA	2338 CA GLY A 294	28.918 35.581 56.124 1.00 34.84 6	
MOTA	2339 C GLY A 294	28.142 30.443 33.133	
MOTA MOTA	2340 O GLY A 294	28.644 37.473 34.600 1 00 21 97 7	
ATOM	2341 N GLY A 295	26.917 36.033 34.042 2.04	
MOTA	2342 CA GLY A 295	26.102 36.800 33.773 100 37 09 6	
ATOM	2343 C GLY A 295	25.969 36.243 34.646 1 00 27 03 8	
ATOM	2344 O GLY A 295	26.192 38.336 33.350 3.00 34 57 7	
MOTA	2345 N GLY A 296	23.330 33.22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ı
MOTA	2346 CA GLY A 296	25 562 41 262 52.446 1.00 27.64 6	
MOTA	2347 C GLY A 296	26 591 41 163 51.771 1.00 26.65 8	
MOTA	2348 O GLY A 296 2349 N TYR A 297	24 526 42 009 52,078 1.00 30.21 7	
ATCM		24 543 42 704 50.801 1.00 30.62	
ATOM	2350 CA TYR A 297 2351 CB TYR A 297	23 560 42.011 49.859 1.00 29.50	
ATOM	2352 CG TYR A 297	23.717 40.516 49.953 1.00 30.33	
MOTA MOTA	2353 CD1 TYR A 297	23.1/4 39.810 31.002 1.00 30 74	5
ATOM	2354 CE1 TYR A 297	23.450 36.449 31.20 1.00 31.20	5
ATOM	2355 CD2 TYR A 297	24.538 39.024 49.00	6
ATOM	2356 CE2 TYR A 297	24.821 38.460 49.24	6
MOTA	2357 CZ TYR A 297	man + 00 20 ED	8
MOTA	2358 OH TYR A 297	44.332 20.55	6
ATOM	2359 C TYR A 297	24.267 44.195 50.875 1.00 32.07 24.134 44.849 49.840 1.00 33.83	8
MOTA	2360 O TYR A 297	24 180 44 725 52 094 1.00 31.41	7
ATOM	2361 N HIS A 298	23 961 46 153 52.289 1.00 33.94	6
ATOM	2362 CA HIS A 298	22 761 46 430 53.194 1.00 34.75	6
ATOM	2363 CB HIS A 298 2364 CG HIS A 298	22 379 47 880 53.256 1.00 35.16	6
MOTA		22.558 48.809 54.224 1.00 35.72	6
MOTA	000	21.779 48.538 52.205 1.00 34.10	7
MOTA		21.605 49.809 52.522 1.00 31.84	6
ATOM		22.069 50.000 53.742 1.00 35.46	7
ATOM	2368 NE2 HIS A 298 2369 C HIS A 298	25.213 46.697 52.962 1.00 36.21	6 8
ATOM	2370 O HIS A 298	25.471 46.405 54.133 1.00 33.83	7
ATOM	2371 N PRO A 299	25.992 47.519 52.234 1.00 36.69 25.680 47.997 50.881 1.00 35.57	6
ATOM ATOM	2372 CD PRO A 299	23.000 47.33	6
ATOM	2373 CA PRO A 299	27. 20. 20. 27. 75	5
ATOM	2374 CB PRO A 299	27.500. 45.075	6
ATOM	2375 CG PRO A 299	20.210 40.000	6
MOTA	770 3 799	27.045 48.886 54.000 1.00 34.47	
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. = 014	2377	O PRO	A 299		27.781	4			1.00 33.67	8
ATOM		o rico	3 300		26.051	4	9.763	54.026	1.00 32.69	7
ATOM			A 300					55.227	1.00 32.97	6
ATOM	2379		A 300		25.745		-		1.00 35.56	6
ATOM		CB TYR	LA 300		24.496			55.009		
		CG TYR	R A 300		24.648	5	2.524	54.028	1.00 35.96	6
MOTA					25.370	5	2.367	52.842	1.00 39.37	6
ATOM-			R A 300				3.405	51.907	1.00 39.92	6
ATOM	2383		R A 300		25.461				1.00 35.92	6
		CD2 TYF	00E A 9		24.016	5	3.752	54.259		
MOTA			R A 300		24.098	. 5	4.793	53.334	1.00 36.78	6
MOTA					24.823		4.612	52.161	1.00 38.09	6
ATOM		CZ TYF	R A 300					51.251	1.00 37.68	8
MOTA	2387		R A 300		24.927		55.634		1.00 31.10	6
		C TYP	R A 300		25.497		19.546	56.3.69		
MOTA		O TV	R A 300	•	26.062	. 4	19.692	57.440	1.00 30.62	8 .
MOTA	2389				24.661		48.541	56.125	1.00 32.55	7
MOTA	2390		A A 301				47.541	57.145	1.00 31.64	6
MOTA	2391		A A 301		24.323			56.624	1.00 24.69	6 -
ATOM	2392	CB AL	A A 301		23.216		46.602	50.024		6
	2393	C AL	A A 301		25.539) (46.727	57.552	1.00 30.06	
MOTA		0 11	A A 301		25.848	3 4	46.579	58.734	1.00 31.91	8
MOTA	2394		4 X 302		26.223	١,	46.192	56.557	1.00 28.94	7
MOTA	2395	N LE	U A 302				45.383	56.795	1.00 30.55	6
ATOM	2396		U A 302		27.404				1.00 31.83	6
ATOM	2397	CB LE	U A 302		28.012		45.002	55.441		6
	2398		U A 302		29.315	õ.	44.223	55.323	1.00 30.01	
MOTA			U A 302		29.491	1	43.781	53.888	1.00 32.09	6
MOTA	2399	CDI DE	U A 302		30.475	-	45.077	55.762	1.00 32.23	6
MOTA	2400	CD2 LE	U A 302					57.663	1.00 29.79	6
ATOM	2401		U A 302		28.418	-	46.136		1.00 27.68	8
ATOM	2402	O LE	U A 302		28.79		45.676	58.746		7
			A A 303		28.842	2	47.299	57.179	1.00 27.92	
MOTA	2403		A A 303		29.81		48.119	57.877	1.00 25.00	6
MOTA	2404				30.02		49.424	57.137	1.00 23.62	6
ATOM	2405		A A 303					59.305	1.00 25.06	6
MOTA	2406	C AL	A A 303		29.39		48.397		1.00 26.90	8
	2407	O AL	A A 303		30.08	8	48.015	60.248	1.00 20.90	7
MOTA	2408	N AR	G A 304		28.25	8	49.054	59.472	1.00 24.06	
MOTA		10 21	RG A 304		27.79		49.382	60.810	1.00 24.37	6
ATOM	2409		G A 304		26.42		50.052	60.758	1.00 23.99	6
MOTA	2410	CB AR	KG A 304 -		20.42		51.257	59.815	1.00 28.77	6
MOTA	2411	CG AF	RG A 304		26.32			60.156	1.00 29.96	6
ATOM	2412	CD AF	RG A 304		25.10		52.089			7
	2413	NE AF	RG A 304		23.94	3	51.233	60.369		
ATOM		CZ AF	RG A 304		22.89	3	51.573	61.110	1.00 37.01	6
MOTA	2414	CZ AF	RG A 304		22.85		52.757	61.713	1.00 36.37	7
MOTA	2415		(G A 304		21.89		50.719	61.269	1.00 34.36	7
MOTA	2416	NH2 AF	RG A 304				48.142	61.691	1.00 24.24	6
ATOM	2417	C AF	RG A 304		27.72				1.00 22.34	8
ATOM	2418	O AF	RG A 304		28.34		48.099	62.762	1.00 24.51	7
	2419	N AI	LA A 305		26.99	4	47.132	61.221	1.00 24.31	
ATOM		_	LA A 305		26.80	1	45.883	61.959	1.00 22.70	6
MOTA	2420	CA AI	LA A 305		25.88		44.960	61.175	1.00 18.13	6
MOTA	2421		LA A 303		28.08		45.142	62.351	1.00 23.33	. 6
MOTA	2422		LA 🗀 305					63.506	1.00 21.51	8 .
ATOM	2423	O Al	LA . 305		28.23		44.725		1.00 22.79	7
ATOM	2424	N T	RP 306		29.01	16	44.961	61.411	1.00 22.73	6
	2425	CA T	RP A 306		30.24	14	44.270	61.764	1.00 24.33	
ATOM		CV 1.	RP A 306		31.02	29	43.842	60.524	1.00 26.93	6
ATOM	2426	CB T	RP A 300		30.60		42.503	59.952	1.00 27.96	6
MOTA	2427	CG T	RP A 306				42.013	58.629		6
MOTA	2428		RP A 306		30.86					6
ATOM	2429	CE2 T	RP A 306		30.3€		40.688	58.570		6
		CE3 T	RP A 306		31.46	52	42.563	57.490		0
MOTA	2430	253 1	DD 7 306		29.98		41.484	60.620	1.00 28.53	6
MOTA	2431		RP A 306		29.83		40.392	- -		· 7
MOTA	2432		RP A 306							6
ATOM	2433		RP A 306		30.4		39.904			6
	2434		RP A 306		31.5	48	41.784	56.343		
ATOM			RP A 306		31.0		40.465	56.315	1.00 24.20	6
MOTA	2435				31.1		45.108		; 1.00 26.51	6
ATOM		C T	RP A 306		31.9		44.570	- .		8
ATOM		ОТ	RP A 306		21.3	00				
ATOM		N T	HR A 307		3,1.0		46.427			
		CA T	HR A 307		31.7	85	47.323			
ATOM	4 0		HR A 307		31.4	84	48.796	63.100	1.00 27.86	
ATOM		001 ~	יים בי אייי		31.9	94	49.119	61.799	1.00 30.17	
ATOM	2441		HR A 307				49.704			6
ATOM		CG2 I	THR A 307		32.1	20	49.10		. =	

									1.00 2	0.35	6
	2443	C . 5	THR A	307	31	.441	47.041	64.863	1.00 2	9.32	
ATOM						.316	46.989	65.725	1.00 3	2.56	8
ATOM	2444		thr a						1.00 3		7
		N I	LEU A	308	30	.159	46.857	65.135	1.00 3	0.00	
MOTA		-			20	.740	46.555	66.490	1.00 3	3.69	6.
MOTA	2446	CA :	LEU A	308					1.00 3		6
	2447	CB :	LEU A	308	28	. 256	46.215	66.525			
MOTA					27	.338	47337	66.058	1.00 3	4.79	6
MOTA	2448		LEU A						1.00 3	1 98	6
	2449	CD1	LEU A	308	25	.903	46.887	66.153			
MOTA	- :			200	27	.569	48.542	66.924	1.00 3	16.96	6
MOTA	2450	CDZ	LEU A	300				66.965	1.00 3	14.57	6
MOTA	2451	С	LEU A	308	30	.531	45.353				8
			LEU A		31	.230	45.417	67.975	1.00 3	33.75	
MOTA	2452	0	LEU A	,			44.262	66.208	1.00 3	35.78	7 .
MOTA	2453	N	ILE A	309 .		.423			2.00	15 07	6
		0.5	ILE A	309	31	.108	43.017	66.540	1.00		
MOTA			TIE A	202		.939	41.949	65.431	1.00	34.95	6
ATOM	2455	CB	ILE A	309					1.00		6
	2456	CG2	ILE A	309	31	.733	40.695	65.799			
MOTA			77.5	300	29	.445	41.631	65.212	1.00	34.25	6
ATOM	2457	CG1	ILE A	303				66.407	1.00	25.04	6
	2458	CD1	ILE A	309	28	.726	41.014		1.00	25.01	
ATOM			ILE A	300	32	.589	43.238	66.772	1.00		6
ATOM	2459	С	TPE W	202			42.617	67.657	1.00	38.19	8
MOTA	2460	0	ILE A	309		.183			1.00		7
		N	TRP A	310	33	.197	44.111	65.977			
MOTA	2461		11/12 /	310		.612	44.384	66.169	1.00	35.26	6
MOTA	2462	CA	TRP A	310					1.00		6
	2463	CB	TRP A	310	35	3.150	45.311	65.075			
MOTA			TRP A	210	3.6	6.619	45.588	65.220	1.00	30.79	6
ATOM	2464	CG	TRP A	210				65.274	1.00	29 93	6
ATOM	2465	CD2	TRP A	310	37	7.679	44.620				6
			TRP A		3.8	3.882	45.330	65.474		28.42	
MOTA	2466	CE2					43.224	65.174	1.00	31.59	6
MOTA	2467	CE3	TRP A			7.731				30.62	6
		CD1	TRP A	310	31	7.206	46.804	65.380	1.00	30.62	
MOTA	2468					3.565	46.659	65.536	1.00	29.37	7
ATOM	2469	NEl	TRP A	310			44.603	65.578		27.91	6
	2470	CZ2	TRP A	310	40	0.126	44.691				
ATOM			TRP A	310	31	B.978	42.585	65.279		28.06	6
ATOM	2471	CZ3				0.150	43.322	65.479	1.00	26.50	6
ATOM-	2472	CH2	TRP A							36.00	6
	2473	С	TRP A	310	3	4.744	45.040	67.545			
MOTA				210	3	5.365	44.476	68.440	1.00	36.24	8
MOTA	2474	0	TRP A	7 210					1 00	34.57	7
MOTA	2475	N	CYS A	4 311		4.134	46.213	•			6
	_		CYS A	311	3	4.183	46.937	68.985	1.00	32.82	
MOTA	2476	ÇA	CIS	3 3 4 4		3.169	48.085	68.996	1.00	35.62	6
MOTA	2477	CB	CYS ?	# 2TT						32.36	16
	2478	SG	CYS	311	3	3.439	49.401	67.796			
MOTA			010	211	3	3.912	46.061	70.206	1.00	32.01	6
MOTA	2479	С	CYS	311					1 00	29.82	8
MOTA	2480	0	CYS A	A 311		4.452	46.313		3.00	32.57	7
			CLIL	A 312	3	3.062	45.049	70.053			
ATOM	2481	N	GLO A	. 312		2.731		71.171	1.00	33.86	6
ATOM	2482	CA	GLU A	A 312					1 00	34.19	6
	2483	CB	GLU 2	A 312	3	1.557	43.252				
ATOM			CLII	A 312	3	0.442	43.185	71.844	1.00	40.27	6
ATCM	2484	CG	GEO 1	A 312					1.00	43.80	6
MOTA	2485	CD	GLU A	A 312		0.923				44.81	8
	2486	OF1	GLU	a 312	3	1.685	41.831				
MOTA		000		. 222		0.516		74.195	1.00	41.54	8
MOTA	2487	CE2	GLU .	A 312						33.77	6
ATOM	2488	С	GLU .	A 312	3	3.953	43.298			77 07	8
			CT II	A 312	3	4.253	42.957	72.603	1.00	32.07	_
ATOM	2489	0	יייט	7 7 7 6		4.647	42.945			33.45	7
ATOM	2490	N	LEU .	A 313						32.89	6
	2491	CA	LEU	A 313	3	35.848					
ATOM			220	3 212		36.172		69.115	1.00	32.14	6
ATCM	2492	CB		A 313					. 1 00	27.73	6
ATOM	2493	CG	LEU	A 313		35.154		·		20 30	6
			LEU		•	35.587	39.956	67.269		30.39	
MOTA	2494	Ci).		2 222		35.053			1.00	27.87	6
ATOM	2495	CD:	2 LEU	A 515			_		1 00	31.64	6
	2496	С	T.FIT	A 313	:	36.976	43.03			31.04	Š
MOTA						37.60	42.79	3 71.925	1.00	31.74	8
ATOM	2497	0	LEU	A 313						33.49	7
ATCM	2498	N	SER	A 314		37.20				35 50	6
		63	SER	3 314	•	38.23	2 45.06	70.32	5 1.UC	35.59	
ATOM	2499		257			38.10			5 1.00	36.47	6
ATOM	2500	CB	SER	A 314						44.55	8
			SER	A 314		39.14	1 47.12			, 44.00	<i>c</i>
atcm			221	A 314		38.04		1 71.73	0 1.30	37.82	6
ATOM	2502		SEK	D 274		_				37.32	8
ATOM		၁	SER	A 314		39.01				38.05	
			CI.V	A 315		36.79	4 45.72				
ATCM				3 215		36.50		3 73.49	8 1.00	0 42.42	6
ATOM	2505	CA	GLY	A 315						0 46.80	6
ATOM			GLY	A 315		36.29				0 47.85	
			CT.V	A 315		35.92	3 48.27		_	41.00	
ATOM	2507		100	2 316		36.51			8 1.0	0 48.90	7
ATCM	2508	3 N	ARG	A 316				•			

MOTA		CA ARG A		36.346 37.144	49.885 50.479	72.448 71.283	1.00 52.27 1.00 53.60	6 6
ATOM	2510	CB ARG A		36.730	50.007	69.900	1.00 52.11	6
ATOM	2511 2512	CG ARG A		37.734	50.514	68.870	1.00 53,76	6
MOTA MOTA	2512	NE ARG A		39.028	49.854	69.019	1.00 53.67	7
ATOM -	2514	CZ ARG A		40.135	50.221	68.383	1.00 55.34	6
ATOM	2515	NH1 ARG A		40.110	51.253	67.552	1.00 55.44	7 .
MOTA	2516	NH2 ARG A	316	41.266	49.546	68.569	1.00 55.80	7 .
MOTA	2517	C ARG A		34.882	50.343	72.391	1.00 52.06	8
MOTA	2518	O ARG A		34.075	49.781		1.00 54.96 1.00 51.87	7
MOTA	2519.	N GLU A		34.547	51.361	73.182 73.222	1.00 52.67	6
MOTA	2520	CA GLU A		33.185	51.900 53.139	74.123	1.00 54.70	6
MOTA	2521	CB GLU A		33.111 32.549	52.901	75.527	1.00 60.94	6
MOTA	2522 2523	CG GLU A		33.353	51.912	76.361	1.00 64.62	6
MOTA	2524	OE1 GLU A		33.025	51.741	77.556	1.00 64.59	8 -
ATOM ATOM	2525	OE2 GLU A	317	34.305	51.302	75.832	1.00 68.64	8
ATOM	2526	C GLU A	317	32.642	52.256	71.843	1.00 51.27	6
ATOM	2527	O GLU A		33.270	52.983	71.077	1.00 49.34 1.00 51.30	8 7
ATOM	2528	N VAL A		31.457	51.733	71.548	1.00 48.80	6
MOTA	2529	CA VAL A	318	30.780	51.962	70.280 70.169	1.00 47.11	6
MOTA	2530	CB VAL A	318 .	29.522	51.071 51.237	68.808	1.00 45.53	6
MOTA	2531	CG1 VAL A		28.875 29.895	49.631	70.424	1.00 47.05	6
MOTA	2532	CG2 VAL A		30.349	53.411	70.178	1.00 47.64	6
ATOM	2533 2534	C VAL A		29.511	53.867	70.953	1.00 47.61	8
MOTA	2535	N PRO A		30.925	54.165	69.234	1.00 48.14	7
MOTA MOTA	2536	CD PRO A		31.960	53.836	68.247	1.00 48.87	6
ATOM	2537	CA PRO A	319	30.538	55.569	69.093	1.00 52.54 1.00 49.96	6 6
ATOM	2538	CB PRO A		31.438	56.051	67.954	1.00 49.96	6
MOTA	2539	CG PRO A		31.612	54.802 55.679	67.141 68.764	1.00 55.84	6
MOTA	2540	C PRO A		29.052 28.531	54.913	67.953	1.00 56.06	8
MOTA	2541	O PRO A N GLU A		28.369	56.624	69.402	1.00 59.20	7
MOTA	2542 2543	CA GLU A		26.942	56.804	69.167	1.00 62.61	6
MOTA MOTA	2544	CB GLU A		26.302	57.588	70.313	1.00 65.59	6
ATOM	2545	CG GLU A	320	26.727	59.042	70.365	1.00 73.01 1.00 76.93	6 6
ATOM	2546	CD GLU A		26.007	59.823	71.451 71.446	1.00 76.33	8
MOTA	2547	OE1 GLU A		24.755 26.697	59.832 60.431	72.303	1.00 79.46	8
MOTA	2548	OE2 GLU A		26.698	57.551	67.863	1.00 61.40	6
MOTA	2549 2550	C GLU A		25.663	58.197	67.699	1.00 62.33	8
MOTA MOTA	2551	N LYS A	321	27.650	57.463		1.00 59.47	7
ATOM	2552	CA LYS A	321	27.519	58.150	65.662	1.00 59.54	6 6
MOTA	2553	CB LYS A	321	27.340		65.897	1.00 61.36 1.00 65.23	6
ATOM	2554	CG LYS A		23.620	60.323	66.366	1.00 65.23	6
MOTA	2555	CD LYS A		33.564	60.215	67.960	1.00 67.34	6
MOTA	2556	CE LYS A		30.591		68.100	1.00 68.58	7
ATOM	2557	NZ LYS A		28.766		64.806	1.00 59.24	6
MOTA MOTA	2558 2559	O LYS A	321	29.845		65.319		8
ATOM	2560	N LEU A	322	28.608			1.00 57.55	7
ATOM	2561	CA LEU A	322	29.702			1.00 54.72 1.00 52.96	6 6
ATOM	2562	CB LEU A		29.171			1.00 52.97	6
MOTA	2563	CG LEU A		28.141			1.00 49 01	6
ATOM	2564	CD1 LEU A	322	27.708 28.716			1.00 54.73	6
MOTA	2565	CD2 LEU A	A 322	30.250				6
MOTA	2566			29.512			1.00 53.39	8
ATOM	2567 2568	O LEU A		31.530		61.965	1.00 51.43	7
ATOM ATOM	2569	CA ASN A	A 323	32.089	60.842	61.706		6
ATOM	2570	CB ASN A	A 323	33.591				6 6
ATOM	2571	CG ASN	A 323	34.428				8
ATCM	2572	OD1 ASN	A 323	34.386				
ATOM	2573	ND2 ASN	A 323	35.195 31.843				6
ATOM	2574	C ASN	A 323	31.043	01.132	, 55.240		

ATOM 2515 O ASN A 323 31.135 60.479 59.538 1.00 47.52 8 ATOM 2517 CA ASN A 324 32.426 62.304 59.792 1.00 47.66 7 ATOM 2518 CB ASN A 324 32.242 62.769 58.419 1.00 49.25 6 ATOM 2518 CB ASN A 324 32.758 64.200 58.292 1.00 50.73 6 ATOM 2519 CG ASN A 324 32.025 65.154 59.205 1.00 53.83 6 ATOM 2580 ODI ASN A 324 32.055 65.344 59.205 1.00 53.83 6 ATOM 2581 ND2 ASN A 324 32.755 65.346 59.096 1.00 64.93 7 ATOM 2581 ND2 ASN A 324 32.956 61.891 57.367 1.00 44.934 6 ATOM 2581 ND2 ASN A 324 32.956 61.891 57.367 1.00 44.934 6 ATOM 2581 ND2 ASN A 324 32.956 61.891 57.367 1.00 47.22 8 ATOM 2581 ND2 ASN A 324 32.996 61.500 57.586 1.00 48.27 7 ATOM 2585 C ASN A 324 32.996 61.500 57.586 1.00 48.27 7 ATOM 2585 C C ASN A 324 32.996 61.500 57.586 1.00 48.27 7 ATOM 2585 C C ASN A 324 32.996 61.500 57.586 1.00 48.57 6 ATOM 2585 C C LYS A 325 34.957 60.759 56.676 1.00 46.57 6 ATOM 2585 C C LYS A 325 34.927 59.737 56.399 1.00 47.22 8 ATOM 2585 C C LYS A 325 37.299 59.737 56.399 1.00 54.75 6 ATOM 2585 C C LYS A 325 39.326 60.521 57.844 1.00 88.35 6 ATOM 2580 C LYS A 325 39.326 60.521 57.844 1.00 88.35 6 ATOM 2580 NZ LYS A 325 34.065 59.458 56.410 1.00 44.85 6 ATOM 2590 NZ LYS A 325 34.065 59.027 55.263 1.00 43.59 8 ATOM 2591 C LYS A 325 34.065 59.027 55.263 1.00 43.59 8 ATOM 2595 C B ALA A 326 33.712 58.843 57.483 1.00 42.27 7 ATOM 2595 C B ALA A 326 33.712 58.843 57.483 1.00 42.27 7 ATOM 2595 C B ALA A 326 33.606 59.027 55.263 1.00 44.85 6 ATOM 2590 C LYS A 325 34.065 59.027 55.263 1.00 44.85 6 ATOM 2590 C LYS A 325 34.065 59.027 55.263 1.00 44.85 6 ATOM 2590 C LYS A 325 34.065 59.027 55.263 1.00 44.85 6 ATOM 2590 C LYS A 325 34.065 59.027 55.263 1.00 44.85 6 ATOM 2590 C LYS A 327 29.656 57.097 58.843 57.483 1.00 44.85 6 ATOM 2600 C LYS A 327 29.656 57.097 58.843 57.483 1.00 44.85 6 ATOM 2600 C B LYS A 327 29.686 57.097 58.849 57.00 49.94 68 ATOM 2600 C B LYS A 327 29.686 57.097 58.849 57.00 49.94 68 ATOM 2600 C B LYS A 327 29.03 60.00 59.94 58 ATOM 2600 C LYS A 327 29.03 60.00 59.94 58 ATOM 2600 C LYS A 327 29.03 60.00 59.94 58 ATOM 26						riguic 17-40				
ATOM 2579 CD. ASN A 324 32.728 62.769 58.419 1.00 49.25 6 ATOM 2578 CD. ASN A 324 32.758 64.200 58.292 1.00 53.83 6 ATOM 2579 CG. ASN A 324 32.055 65.154 59.205 1.00 53.83 6 ATOM 2580 DD. ASN A 324 32.055 65.154 59.205 1.00 53.83 6 ATOM 2581 ND2 ASN A 324 32.055 65.789 60.119 1.00 54.93 7 ATOM 2582 C ASN A 324 32.956 61.891 57.367 1.00 49.35 6 ATOM 2583 O ASN A 324 32.956 61.891 57.367 1.00 49.34 6 ATOM 2584 N LYS A 325 34.195 61.502 56.379 1.00 47.22 8 ATOM 2585 CA LYS A 325 34.957 60.759 56.676 1.00 48.27 7 ATOM 2585 CA LYS A 325 36.314 60.453 57.35 1.00 48.27 7 ATOM 2586 CB LYS A 325 36.314 60.453 57.35 1.00 48.27 7 ATOM 2586 CB LYS A 325 38.562 59.329 59.737 56.399 1.00 54.75 6 ATOM 2586 CB LYS A 325 38.562 59.329 57.773 1.00 58.22 6 ATOM 2580 CD LYS A 325 38.562 59.329 57.773 1.00 58.22 6 ATOM 2580 CD LYS A 325 38.562 59.329 57.773 1.00 88.22 6 ATOM 2580 CD LYS A 325 34.202 59.329 57.773 1.00 88.22 6 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 6 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 6 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 84.55 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 84.55 8 ATOM 2590 C LYS A 325 31.326 35.706 758.773 1.00 46.91 6 ATOM 2590 C LYS A 325 31.326 57.607 57.807 1.00 46.91 6 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 325 34.202 59.458 56.416 1.00 58.35 8 ATOM 2590 C LYS A 327 29.203 60.403 56.891 1.00 48.95 6 ATOM 2590 C LYS A 327 29.203 60.403 56.891 1.00 48.95 6 ATOM 2590 C LYS A 327 29.203 60.403 56.892 1.00 48.95 6 ATOM 2590 C LYS A 327 29.203 60.403 56.892 1.00 45.56 6 ATOM 2600 C LYS A 327 29.605 69.893 59.493 56.400 57.500 1.00 45.56 6 ATOM 2600 C LYS A 327 29.605 69.400 56.892 1.00 36.36 6 ATOM 2600 C LYS A 327 29.805 59.400 59.400 59.91	MOTA	2575	0	ASN A	323				1.00 47.52	
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ATOM 2598 N LYS A 327 30.918 58.843 56.977 1.00 42.83 8 ATOM 2599 CA LYS A 327 29.657 59.146 56.306 1.00 47.23 6 ATOM 2600 CB LYS A 327 29.023 60.407 56.892 1.00 49.59 6 ATOM 2601 CG LYS A 327 29.023 60.407 56.892 1.00 54.63 6 ATOM 2602 CD LYS A 327 28.024 61.591 58.862 1.00 54.63 6 ATOM 2603 CE LYS A 327 28.024 61.591 58.862 1.00 54.63 6 ATOM 2604 NZ LYS A 327 27.529 61.483 60.299 1.00 58.28 6 ATOM 2606 C LYS A 327 27.529 61.483 60.299 1.00 58.28 6 ATOM 2606 NZ LYS A 327 29.888 59.347 54.816 1.00 44.99 7 ATOM 2606 C LYS A 327 29.888 59.347 54.816 1.00 48.10 8 ATOM 2607 N GLU A 328 30.986 60.012 54.480 1.00 44.99 7 ATOM 2608 CA GLU A 328 31.325 60.264 53.091 1.00 44.99 7 ATOM 2609 CB GLU A 328 31.993 62.621 53.710 1.00 44.99 7 ATOM 2601 CG GLU A 328 33.112 63.630 53.831 1.00 55.79 6 ATOM 2611 CD GLU A 328 33.112 63.630 53.831 1.00 55.79 6 ATOM 2613 OE2 GLU A 328 33.642 64.060 52.783 1.00 55.73 8 ATOM 2613 OE2 GLU A 328 33.642 64.060 52.783 1.00 55.73 8 ATOM 2616 N LEU A 329 33.642 64.060 52.783 1.00 41.56 6 ATOM 2617 CA LEU A 329 32.465 58.911 53.251 1.00 41.56 6 ATOM 2618 CB LEU A 329 33.642 64.060 52.783 1.00 55.79 6 ATOM 2616 C GLU A 328 31.595 58.971 52.437 1.00 41.56 6 ATOM 2617 CA LEU A 329 32.465 58.123 53.211 1.00 40.64 7 ATOM 2618 CB LEU A 329 32.465 58.123 53.211 1.00 40.64 7 ATOM 2616 CG LEU A 329 32.465 58.123 53.211 1.00 40.64 7 ATOM 2617 CA LEU A 329 33.632 56.032 53.801 1.00 35.77 6 ATOM 2620 CDI LEU A 329 34.619 53.926 54.683 1.00 34.94 8 ATOM 2621 CDI LEU A 330 39.95 55.746 50.975 1.00 31.74 6 ATOM 2622 C LEU A 330 29.559 55.746 50.975 1.00 31.74 6 ATOM 2623 C LEU A 330 29.559 55.746 50.975 1.00 31.74 6 ATOM 2630 C LEU A 330 29.579 55.028 52.630 1.00 30.11 6 ATOM 2631 C LEU A 330 29.579 55.028 52.630 1.00 30.73 6 ATOM 2632 C LEU A 330 29.579 55.028 52.630 1.00 30.73 6 ATOM 2630 C LEU A 330 29.579 55.028 52.630 1.00 39.59 6 ATOM 2630 C LEU A 330 29.579 55.028 52.630 1.00 39.59 6 ATOM 2630 C LEU A 330 29.579 55.028 52.630 1.00 39.59 6 ATOM 2630 C LEU A 330 29.579 55.028 52.630 1.00 39.59 6 ATOM 2			С			31.666	57.803		1.00 43.30	
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ATOM 2600 CB LYS A 327	ATOM	2598	N							
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200 200 200 200 200 400 47 004 1 00 39 50 8				LYS	331	28.863				
	•			LYS	331	28.220		47.904	1.00 39.58	8

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ATOM	2641	N	SER A	332		192			49.005	1.00 4	2.69	7 . 6
MOTA		CA	SER A	332		998			47.792	1.00 4		6
ATOM		CB	SER A			494			48.124	1.00 4		
ATOM	2644	OG	SER A			.862			48.823	1.00 5		8 6
ATOM		C	SER A			634		007	47.040	1.00 4		
ATOM	2646	ō	SER A	332	30.	706		959	45.811	1.00 4		8 7
ATOM	2647	N	ILE A		30	.241	54.	982	47.786	1.00 5	1.56	
ATOM	2648	CA	ILE A	333		. 869		713	47.187	1.00 5	4.86	6
MOTA	2649	CB.	ILE A	- 333		. 657		626	48.246	1.00 5	5.80	6
ATOM	2650	CG2	ILE A		29	.388		285	47.559	1.00 5	2.34	6
ATOM	2651	CG1	ILE A		30	.892		522	49.140	1.00 5		6
ATOM	2652	CD1	ILE A			.766		456	50.204	1.00 6	7.07	6 6
ATOM	2653	С	ILE A	. 333		. 579		.813	46.396	1.00 5	: 7.07	8
MOTA	2654	0	ILE A	. 333		.572		.321	46.897	1.00		7
ATOM	2655	N	ASP A	334 -		. 623		.320	45.160	1.00 6)1.14 (5 55	6
ATOM	2656	CA	ASP A	334		.456		.300	44.281	1.00 6		6
ATOM	2657	CB	ASP A	334		.888		. 259	42.811	1.00		6
MOTA	2658	CG	ASP A			.784		.073	42.491 41.298	1.00		8
ATOM	2659	OD1	ASP A	334		.097		.875	43.427	1.00		8
ATOM	2660		ASP A	334		.181		.344 .041	44.627	1.00		6
MOTA	2661	С	ASP A			.660		.996	43.990	1.00		8
MOTA	2662	0	ASP A	334 .		.797 .822		.153	45.649	1.00		7
ATOM	2663	N	PHE A	A 335		.041		.021	46.104	1.00		- 6
ATOM	2664	CA	PHE A			.980		.034	47.632	1.00	58.05	6
MOTA	2665	CB	PHE A			.039		.028	48.195	1.00	53.82	6
MOTA	2666	CG		A 335		.178		.679	47.886	1.00	52.40	6
ATOM	2667	CD1				.978		.429	48.989	1.00	51.33	6
ATOM	2668	CD2	PHE A			.265		.742	48.356	1.00	52.73	6
ATOM	2669			A 335		.062		.503	49.462	1.00	53.20	6
MOTA	2670 2671	CE2		A 335		.204		.151	49.144	1.00	51.76	6
MOTA	2672	C		A 335		3.629	50	.893	45.535	1.00	65.55	6
MOTA	2673	0		A 335		3.230	49	.810	45.097	1.00	67.33	8
MOTA	2674	N	GLU	A 336	22	2.874	51	986	45.537	1.00	66.47	7
MOTA	2675	CA	GLU	A 336	2.1	L.497		948	45.048	1.00	67.43	6
MOTA MOTA	2676	СВ		A 336	2:	1.422		379	43.626	1.00	71.79	6 6
MOTA	2677	CG		A 336		9.982		.245	43.116	1.00	78.77 82.67	6
ATOM	2678	CD	GLU	A 336		9.868).505	41.789	1.00	83.29	8
ATOM	2679	OE:	L GLU	A 336		0.232		3.306	41.734	1.00	84.26	8
ATOM	2680	OE:	2 GLU	A 336		9.410		1.126	45.971	1.00	64.72	6
ATOM	2681	C	GLU	A 336		0.655		1.069	45.876	1.00	59.84	8
MOTA	2682	0		A 336		0.686		9.840 1.710	46.858	1.00	64.47	7
MOTA	2683	N		A 337		9.901 9.045	-	1.003	47.805	1.00	65.83	6
ATOM	2684	CA	GLU	A 337		8.398		2.003	48.759	1.00	64.20	6
MOTA	2685	CB		A 337	1	7.753		1.370		1.00	64.26	6
MOTA	2686	CG		A 337	1	8.774	5	٥.٤.٥	50.850	1.00	64.04	6
MOTA	2687	CD		A 337 A 337		9.741		1.3.2	51.261	1.00	61.66	8
MOTA	2688	OE.		A 337		8.608		9.483	51.132	1.00	63.64	8
MOTA	2689	OE.	CIII	A 337		7.950		0.239	47.063		67.13	6
ATOM	2690	С 0	GEU	A 337		7.269		0.807	46.205		68.27	8
ATOM	2691 2692	Ŋ	PHE	A 338		7.779		8.960			67.22	7
MOTA	2693	CA	PHE	A 338		6.764		8.129			68.05	6
MOTA	2694	CB		A 338		6.445	4	6.919		1.00	69.68	6
ATOM	2695	CG		A 338	1	5.228	3 4	6.158	47.187		72.35	6
MOTA	2696		1 PHE	A 338	1	5.122	2 4	5.674			72.37	6
MOTA	2697		2 PHE	A 338	1	4.172		5.941			73.61	6
MOTA			1 PHE	A 338		3.980		4.984			73.39	6 6
MOTA				A 338		3.024		5.250			73.26	6
ATOM				A 338		.2.929		4.771			73.34	6
ATOM				A 338		5.48		8.902		1.00	68.45	8
atom atom		_		A 338		5.28		9.367			67.92 68.98	7
ATOM			ASP	A 339	3	4.60		9.026			70.68	
ATOM			ASP	A 339		13.35		19.759			70.06	
ATOM			ASP	A 339		12.59		19.758		1 1 00	72.05	
ATOM			ASP	A 339	. 1	11.38	Τ :	50.678	5 40.38 •	1.00		-

						72 20	8
> mo>4	2707	OD1 ASP A 339	11.548	51.893	48.320	1.00 72.29	
ATOM		OD1 7.55 3 330	10.262	50.188	48.858	1.00 71.03	8
MOTA	2708	OD2 ASP A 339	10.202	51.183	46.853	1.00 73.18	6
MOTA	2709	C ASP A 339	13.715				8
	2710	O ASP A 339	14.407	51.884	47.592	1.00 73.78	
MOTA			13.247	51.600	45.677	1.00 76.36	7
MOTA	2711			52.943	45.152	1.00 78.34	6
ATOM	2712	CA ASP A 340	13.518		44 100	1.00 77.55	6
ATOM	2713	CB ASP A 340	12.410	53.385	44.189		
		CG ASP A 340	12.462	52.655	42.864	1.00 78.90	6
MOTA	2714	CG ASE A 340	12.348	51.408	42.855	1.00 78.38	8
MOTA	2715	OD1 ASP A 340			41.830	1.00 78.74	8
MOTA	2716	OD2 ASP A 340	12.620	53.336			6
	2717	C ASP A 340	13.687	54.017	46.214	1.00 79.51	
MOTA			14.587	54.856	46.117	1.00 80.19	8 .
ATOM	2718			54.000	47.224	1.00 79.64	7
ATOM	2719	N GLU A 341	12.824		48.271	1.00 80.05	6
ATOM	2720	CA GLU A 341	12.922	54.998			
	2721	CB GLU A 341	12.269	56 <i>.</i> 301	47.811	1.00 83.75	6
MOTA			12.411	57.442	48.806	1.00 89.02	6
MOTA	2722			58.724	48.328	1.00 91.52	6
MOTA	2723	CD GLU A 341	11.756			1.00 93.33	8
MOTA	2724	OE1 GLU A 341	10.515	58.738	48.175		
		OE2 GLU A 341	12.484	59.716	48.102	1.00 92.65	8
MOTA	2725		12.317	54.578	49.597	1.00 77.98	6
ATOM	2726	C GLU A 341			49.777	1.00 79.82	8
ATOM	2727	O GLU A 341	11.102	54.610			7
	2728	N VAL A 342	13.179	54.181	50.523	1.00 74.49	
MOTA			12.745	53.793	51.859	1.00 71.55	6
MOTA	2729			52.383	52.245	1.00 72.40	6
ATOM	2730	CB VAL A 342	13.224			1.00 71.16	6
ATOM	2731	CG1 VAL A 342	12.672	52.004	53.610		
	2732	CG2 VAL A 342	12.797	51.391	51.207	1.00 74.35	6
MOTA			13.454	54.778	52.766	1.00 68.46	6
ATOM	2733	C VAL A 342		55.154	53.829	1.00 68.96	8
MOTA	2734	O VAL A 342	12.952			1.00 61.61	7
ATOM	2735	N ASP A 343	14.636	55.184	52.311		
	2736	CA ASP A 343	15.486	56.114	53.029	1.00 54.91	6
ATOM			14.678	57.303	53.543	1.00 55.06	6
MOTA	2737	CB ASP A 343		58.390	54.114	1.00 54.44	6
ATOM	2738	CG ASP A 343	15.556			1.00 56.20	8
ATOM	2739	OD1 ASP A 343	15.002	59.3 51	54.694		
		OD2 ASP A 343 .	16.795	58.287	53.969	1.00 49.32	8
ATOM	2740	OD2 ASP A 343	16.152	55.401	54.198	1.00 50.85	6
MOTA	2741	C ASP A 343			55.257	1.00 49.32	8
ATOM	2742	O ASP A 343	15.557	55.209		1.00 47.84	7
ATOM	2743	N ARG A 344	17.396	55.004	53.980		
		CA ARG A 344	18.195	54.321	54.981	1.00 45.34	6
ATOM	2744		18.883	53.099	54.358	1.00 45.00	6
ATOM	2745	CB ARG A 344		51.969	53.974	1.00 38.03	6
MOTA	2746	CG ARG A 344	17.950			1.00 35.83	6
ATOM	2747	CD ARG A 344	17.185	51.531	55.188	1.00 33.83	
		NE ARG A 344	16.278	50.439	54.885	1.00 39.20	7
ATOM	2748	NE ARG A 344	15.350	49.993	55.724	1.00 39.89	6
MOTA	2749	CZ ARG A 344	15.217	50.561	56.917	1.00 40.17	7
ATOM	2750	NH1 ARG A 344				1.00 40.75	7
ATOM	2751	NH2 ARG A 344	14.566	48.976	55.375	1.00 40.75	
	2752	C ARG A 344	19.250	55.278	55.515	1.00 44.72	6
1 TEA			20.170	54.869	56.223	1.00 46.97	8
ATCA	2753			56.552	55.157	1.00 45.81	7
ATO:	2754	N SER A 345	19.113			1.00 43.66	6
ATOM	2755	CA SER A 345	20.045	57.596	55.577	1.00 43.00	
		CB SER A 345	19.538	58.960	55.115	1.00 43.44	6
ATOM	2756		18.292	59.260	55.722	1.00 45.62	8
MOTA	2757	OG SER A 345			57.089	1.00 42.79	6
ATOM	2758	C SER A 345	20.258			1.00 42.62	8
ATOM	2759	o SER A 345	21.364		57.552	1.00 42.02	
		3.4 <i>C</i>	19.200	57.354	57.851	1.00 40.55	7
ATOM	2760		19.280	_	59.308	1.00 41.05	6
MOTA	2761	CA TYR A 346					
ATOM	2762	CB TYR A 346	17.971				6
	2763	CG TYR A 346	17.668			1.00 43.47	
ATOM		CD1 TYR A 346	18.331		60.328	1.00 44.45	6
ATOM	2764	COL TER A 340	18.044	52,983			6
ATOM	2765	CE1 TYR A 346					6
ATOM		CD2 TYR A 346	16.710				
		CE2 TYR A 346	16.416	53.644		1.00 40.59	6
ATCM			17.086			1.00 41.66	5
ATCM							8
ATCM		OH TYR A 346	16.806				6
ATCM			20.466	56.517		1.00 42.32	8
			21.101	56.844			
atom	2771		20.757			1.00 44.59	7
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	2773 C	a M	IET A 347		21.859	5	4.546	59.388	1.00 45.89	6
ATOM			ET A 347		21.950	5.	3.433	58.353	1.00 45.51	6
ATOM	2774 C				20.727			58.244	1.00 45.01	6
MOTA	2775 C	-	ET A 347		_			57.066	1.00 47.13	16
ATOM	2776 S		ET A 347		21.062			55.676	1.00 44.55	6
ATOM	2777 C		ET A 347		21.545				1.00 48.47	6
	2778 C	. 1	MET A 347		23.188		5.286	59.404		
ATOM -	2779		MET A 347		24.129	5	4.888	60.098	1.00 49.49	8 .
MOTA			EU A 348		23.259	5	6.351	58.610	1.00 49.03	7 .
MOTA	2780 N				24.458		7.178	58.499	1.00 48.86	6
ATOM			EU A 348		24.355		8.082	57.269	1.00 45.51	6
MOTA	2782 C		LEU A 348				7.424	55.895	1.00 44.47	6
MOTA	2783 C	G I	LEU A 348		24.280			54.859	1.00 43.62	6
ATOM	2784	D1 1	LEU A 348		23.908	=	8.476	54.035	1.00 42.53	6
ATOM	2785	D2 1	LEU A 348	•	25.618		6.757	55.565-	1.00 42.33	6
	2786		LEU A 348		24.644		58.049	59.738	1.00 49.33	
ATOM			LEU A 348		25.765	5	58.369	60.123	1.00 49.78	8
MOTA			GLU A 349		23.537	9	58.428	60.358	1.00 48.34	7 -
ATOM			GLU A 349		23.591		59.279	61.533	1.00 49.24	6
MOTA		-			22.198		59.848	61.811	1.00 48.36	6
MOTA		CB	GLU A 349		21.628		60.584	60.607	1.00 45.52	6
MOTA		ÇG	GLU A 349				61.619	60.065	1.00 42.94	6
MOTA	2792		GLU A 349		22.598			60.812	1.00 40.82	8
MOTA	2793	OE1	GLU A 349		22.934	'	62.560		1.00 38.30	8
ATOM	2794	OE2	GLU A 349		23.028		61.483	58.900	1.00 48.32	6
		C	GLU A 349		24.119		58.531	62.745	1.00 48.32	- 8
MOTA	_	Ö	GLU A 349		25.226	5	58.783	63.219	1.00 47.87	
MOTA		N	THR A 350		23.325	5	57.602	63.248	1.00 48.97	7
MOTA		-	THR A 350		23.744	1	56.832	64.398	1.00 50.70	6
MOTA		CA	THR A 350		22.558		56.596	65.342	1.00 51.02	6
ATOM		CB			22.07		57.865	65.803	1.00 49.11	8
MOTA	2000		THR A 350		22.98		55.763	66.537	1.00 51.58	6
MOTA		CG2	THR A 350				55.507	63.954	1.00 49.56	6
MOTA	2802	С	THR A 350		24.36		54.947	62.923	1.00 50.55	8
MOTA	2803	0	THR A 350		23.97			64.725	1.00 46.88	7
ATOM	2804	N	LEU A 351		25.33		55.028		1.00 45.35	6
MOTA	2805	CA	LEU A 351		26.01	8	53.781	64.417		6
	2806	CB	LEU A 351		27.34	2	53.726	65.185	1.00 47.05	
MOTA	2807	CG	LEU A 351		28.25	7	52.502	65.072	1.00 49.54	6
ATOM		CD1	LEU A 351		29.57		52.777	65.766	1.00 51.50	6
ATOM	2808	CDI	LEU A 351		27.60		51.302	65.692	1.00 48.35	6
ATOM	2809		LEU A 351		25.14		52.584	64.772	1.00 44.79	6
MOTA	2810	C	TEO W 221		25.13		51.578	64.061	1.00 41.45	8
MOTA	2811	0	LEU A 351		24.42		52.711	65.880	1.00 45.27	7
MOTA	2812	N	LYS A 352				51.662	66.375	1.00 44.62	6
ATOM	2813	CA	LYS A 352		23.53		51.464	67.873	1.00 42.23	6
MOTA	2814	CB	LYS A 352		23.76			68.187	1.00 44.94	6
MOTA	2815	CG	LYS A 352		25.19		51.075	69.650	1.00 46.80	6
MOTA	2816	CD	LYS A 352		25.57		51.262		1.00 45.79	. 6
MOTA	2817	CE	LYS A 352		24.76		50.389	70.581	1.00 47.31	7
	2818	NZ	LYS A 352		25.23		50.586	71.975		6
ATOM	2819	C	LYS A 352		22.09	16	52.087	66.116	1.00 45.12	8
ATOM	2820	0 .	LYS A 352		21.83	7	53.236	65.756		
ATOM		N	ASP A 353		21.16	2	51.161	66.285		7
ATCM	2821		ASP A 353		19.76		51.474	66.060	1.00 46.43	6
ATOM	2822	CA	ASP A 353		19.30		50.943	64.692		6
ATOM	2823	CB	ASP A 333		19.81		49.546		1.00 51.52	6
ATOM	2824	CG	ASP A 353		21.02		49.396			8
MOTA	2825	OD1	ASP A 353							8
ATOM	2826	OD2	ASP A 353		19.00		48.596			
MOTA	2827	С	ASP A 353		18.84		50.968			
	2828	0	ASP A 353		19.1		50.001			
ATOM	2829	N	PRO A 354		17.6		51.629			
ATOM		CD	PRO A 354		17.1		52.775			
ATOM		CA	PRO A 354		16.7		51.243			
ATOM			PRO A 354		15.5		52.245		1.00 44.77	7 6
MOTA	2832	CB	200 Y 324		15.6		52.513		1.00 45.00	5 6
ATOM		CG	PRO A 354		16.2		49.804		3 1.00 44.1	36
ATOM		С	PRO A 354				49.27		1.00 42.9	9 8
ATOM		0	PRO A 354		16.3		49.27	_		7 7
ATOM		И	TRP A 355		15.8	4 l				5 6
ATOM		CA	TRP A 355		15.3	28	47.80			
ATOM		CB	TRP A 355		14.9	82	47.22	- 10.33		- '
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16.168 46.752 71.322 1.00 52.43 CG TRP A 355 2839 MOTA 1.00 53.15 45.391 71.519 16.574 CD2 TRP A 355 MOTA 2840 45.416 72.238 1.00 54.97 6 CE2 TRP A 355 17.789 2841 MOTA 1.00 53.39 44.153 71.155 6 CE3 TRP A 355 16.031 2842 MOTA 1.00 54.39 71.916 47.526 17.125 CD1 TRP A 355 2843 MOTA 72.468 1.00 57.31 46.731 18.103 NE1 TRP A 355 2844 ATOM -6 72.602 1.00 54.97 18.469 44.249 CZ2 TRP A 355 2845 MOTA 1.00 55.77 6 71.518 16.706 42.995 CZ3 TRP A 355 2846 MOTA 1.00 54.84 6 72.234 17.913 43.052 CH2 TRP A 355 2847 ATOM 68.230 1.00 41.94 6 47.690 TRP A 355 14.177 MOTA 2848 С 13.508 1.00 41.39 8 67.915 48.677 TRP A 355 2849 0 MOTA 1.00 38.60 67.775 7 46.471 13.942 ARG A 356 2850 N MOTA 1.00 36.55 66.866 46.185 12.855 ARG A 356 2851 CA MOTA 1.00 35.06 46.044 65.451 6 13.413 ARG A 356 2852 CB MOTA 1.00 32.47 6 64.976 14.120 47.308 ARG A 356 CG 2853 MOTA 1.00 29.54 63.733 6 47.082 ARG A 356 14.969 2854 CD MOTA 63.296 1.00 28.91 7 15.600 48.323 ARG A 356 2855 NE MOTA 1.00 30.60 6 16.514 48.403 62.335 ARG A 356 CZ 2856 MOTA 1.00 33.52 47.305 61.702 16.916 NH1 ARG A 356 2857 MOTA 7 1.00 30.10 17.020 .61.99649.582 NH2 ARG A 356 2858 MOTA 1.00 36.01 6 67.361 12.270 44.879 2859 C ARG A 356 ATOM 66.742 1.00 38.38 8 43.831 ARG A 356 12.447 MOTA 2860 0 1.00 36.04 7 11.587 44.949 68.499 **GLY A 357** 2861 N MOTA 1.00 36.08 11.001 43.758 69.085 GLY A 357 2862 CA MOTA 1.00 34.51 68.851 43.596 9.514 **GLY A 357** 2863 С ATOM 1.00 36.77 8 8.943 44.196 67.943 **GLY A 357** 2864 0 ATOM 69.687 1.00 36.04 7 8.892 42.772 GLY A 358 2865 Ν ATOM 6 42.506 69.593 1.00 32.26 7.466 GLY A 358 CA MOTA 2866 1.00 29.85 7.106 70.385 41.263 **GLY A 358** 2867 С MOTA 40.839 71.288 1.00 28.86 8 7.832 **GLY A 358** 2868 0 ATOM 1.00 30.88 7 70.055 5.975 40.667 **GLU A 359** N ATOM 2869 1.00 32.58 1.00 38.60 6 70.743 39.455 5.550 **GLU A 359** CA 2870 MOTA 70.604 39.289 **GLU A 359** 4.034 CB MOTA 2871 1.00 47.44 71.222 40.435 3.230 GLU A 359 2872-CG ATOM 1.00 50.93 6 70.445 1.957 40.762 GLU A 359 MOTA 2873 CD 8 1.00 52.13 70.221 OE1 GLU A 359 OE2 GLU A 359 39.852 1.123 2874 ATOM 1.00 51.03 70.061 8 1.798 41.942 2875 MOTA 6 70.091 1.00 28.29 38.275 GLU A 359 6.250 2876 С ATOM 1.00 27.88 8 6.790 38.382 68.997 **GLU A 359** 2877 0 ATOM 1.00 27.97 7 70.772 6.263 37.147 VAL A 360 2878 N MOTA 1.00 25.86 6 35.957 70.193 6.859 VAL A 360 ATOM 2879 CA 1.00 22.02 6 71.237 35.168 VAL A 360 7.673 2880 CB MOTA 33.849 70.641 1.00 19.45 6 CG1 VAL A 360 8.155 2881 MOTA 1.00 17.88 6 36.009 71.698 8.850 CG2 VAL A 360 ATOM 2882 1.00 28.04 69.670 5.703 35.099 VAL A 360 2883 C MOTA 8 1.00 27.34 70.440 34.655 4.842 VAL A 360 2884 C MOTA 1.00 27.70 7 34.898 68.358 ARG A 361 5.663 2885 N MOTA 1.00 32.85 67.765 6 34.091 ARG A 361 4.612 2886 C.. MOTA 1.00 32.30 6 66.242 34.164 ARG A 361 4.693 MOTA 2887 CB 1.00 38.81 35.504 4.243 65.687 CG ARG A 361 2888 MOTA 64.201 1.00 40.09 6 4.546 35.653 ARG A 361 2889 CD MOTA 1.00 38.77 7 63.961 35.812 5.974 ARG A 361 2890 ΝE ATOM 6 1.00 39.21 62.763 6.514 35.989 ARG A 361 2891 CZ ATOM 61.685 1.00 40.79 7 36.027 5.748 NH1 ARG A 361 MOTA 2892 7 1.00 42.94 62.643 36.145 7.822 NH2 ARG A 361 MOTA 2893 1.00 35.65 68.222 32.638 4.689 ARG A 361 2894 C MOTA 1.00 37.08 8 68.471 32.097 5.768 ARG A 361 2895 0 MOTA 1.00 37.80 7 68.347 3.526 32.017 LYS A 362 2896 N MOTA 1.00 39.91 6 68.757 30.626 3.436 LYS A 362 2897 CA MOTA 1.00 43.43 6 68.648 30.152 LYS A 362 1.982 2898 CB MOTA 1.00 45.11 6 30.803 69.640 LYS A 362 1.014 2899 CG MOTA 1.00 49.43 32.346 69.673 1.117 CD LYS A 362 2900 ATOM 1.00 45.02 68.327 LYS A 362 0.813 33.022 CE 2901 MOTA 1.00 41.08 68.422 34.509 0.962 NZ LYS A 362 2902 MOTA 1.00 39.25 67.831 LYS A 362 4.320 29.809 2903 С ATOM 1.00 35.45 68.248 4.953 28.835 LYS A 362 0 2904 MOTA

					•							_
			GLU A 36	5	4.3	58	30.229	66.568		0 41		7
MOTA	2905	N	GLU A 3	53	5.1		29.554	65.539		0 43		6
MOTA	2906	CA			5.2		30.416	64.278	1.0	0 45	.90	6
MOTA	2907	CB	GLU A 3		3.8		30.876	63.741	1.0	0 50	.68	6
MOTA	2908	CG	GLU A 3				31.738	62.507		0 54		6
MOTA	2909	CD	GLU A 3		4.0			61.494		0 53		8
ATOM	2910	OE1	GLU A 3	63	4.5		31.224			00 56		8
MOTA	2911	OE2	GLU A 3	63		548	32.927	62.552	-	00 40	20	6
	2912	c	GLU A 3	63	6.5	558	29.296	66.046		00 42		8
MOTA		0	GLU A 3	63	7.6	062	28.169	.65.989		00 41		
MOTA	2913		VAL A 3	64	7.3	183	30.360	66.540		00 37	1.27	7
MOTA	2914	N	VAL A 3	6 A		535	30.291	67.064		00 35		6
MOTA	2915	CA	VALA	C 1		038	31.696	67.469	1.	00 36	5.88	6
MOTA	2916	СВ	VAL A 3		10.		31.599	68.043	1.	00 37	7.77	6
MOTA	2917	CGI		64		018	32.628	66.252		00 34		6
MOTA	2918		VAL A 3	64		650	29.361	68.268		00 33		6
MOTA	2919	С	VAL A 3	64			28.614	68.379		00 3		8
ATOM	2920	0	VAL A 3	64		622				00 3		7
MOTA	2921	N	LYS A 3	65		664	29.409			00 3		6
ATOM	2922	CA	LYS A 3	65		674	28.567			00 3		6
ATOM	2923	CB	LYS A 3	65		598	29.010			00 3		6
ATOM	2924	CG	LYS A 3	65		826	30.409			00 3		6
	2925	CD	LYS A 3	65	5.	837	30.781					6
MOTA	2926	CE	LYS A 3	65 .	6.	120	32.187			00 4		
ATOM		NZ	LYS A 3		5.	191	32.611	74.58	51.	00 4	4.29	7
MOTA	2927	C	LYS A 3		7.	452	27.114	70.00		00 3		6
MOTA	2928		LYS A	165		195	26.237			00 3		8
MOTA	2929	0	ASP A	366	6.	427	26.863	69.20	91.	00 2	9.85	7
MOTA	2930	N	ASP A	266		115	25.509		7 1.	.00 3	2.07	6
MOTA	2931	CA	ASP A	266		948	25.522		8 1.	.00 3	5.98	6
MOTA	2932	CB	ASP A	266		711	26.206		1 1.	.00 3	9.88	6
MOTA	2933	CG	ASP A	300		124	25.692			.00 4	0.16	8
MOTA	2934	OD	ASP A	366		326	27.266			.00 4	3.21	8
MOTA	2935	OD2	ASP A	366			24.866				3.07	6
MOTA	2936	С	ASP A	366		.343	23.763				2.64	8
MOTA	2937	0	ASP A			.753		_			1.89	7
ATOM	2938	N	THR A	367		. 932	25.565	_			31.17	6
ATOM	2939	CA	THR A			.088	25.045				31.55	6
ATOM	2940	CB	THR A	367	_	.712	26.070	0 65.57			34.37	8
ATOM	2941	OG:	1 THR A	367		.707	26.62				33.55	6
ATOM	2942	CG:	2 THR A	367	10	.780	25.40				33.09	6
MOTA	2943	C	THR A	367		.146	24.63				38.62	. 8
	2944	0	THR A	367		.586	23.47					7
MOTA	2945	N	LEU A	368		.570	25.57				31.85	6
MOTA	2946	CA	LEU A		11	.582	25.26				32.87	6
ATOM	2947	C3				.848	26.47				27.73	
ATOM		CG			12	.887	27.44	9 69.5			29.05	6
MOTA	2948	CD	1 LEU A	368		.260	26.77				23.05	6
ATOM	2949		2 LEU A		12	.473	27.89	6 68.1	931	.00	26.53	6
MOTA	2950		LEU A			.157	24.05	3 70.1	07 1	00	35.16	6
ATOM	2951	C	LEU A	368	11	.910	23.07		17 1	00	35.18	8
MOTA	2952		CLU A	360		.942	24.10		49]	00	37.56	7
MOTA	2953		GLU A	260		.431	22.99		42 1	00	40.23	6
ATOM	2954		GLU A	202		.956	23.21		70· 1	.00	42.07	6
MOTA	2955		GLU A	369		.722	24.46			L.00	48.51	6
MOTA	2956			369		.281	24.61			1.00	51.93	6
MOTA	2957	CI	GLU A					_		. 00	52.84	8
ATOM	2958		:1 GLU A			.777			10	1.00	58.33	8
MOTA	2959		2 GLU A	369		652		·		1 00	41.14	6
ATOM			GLU A	369		.633				1 00	41.87	8
ATOM			GLU A	369		0.087				1 00	39.65	7
			LYS A	370		309				1.00	38.26	6
MOTA			_	370		.497			30	1.00	10.40	6
MOTA				370		.144				1.00	40.63	6
ATOM				370	•	7.675				1.00	44.49	
ATOM		_		370		7.495	20.3	58 65		1.00	49.95	6
ATOM				370		6.052					54.28	
atom				370		5.890			574	1.00	55.44	7
ATOM			6 LYS A	370		0.948			730	1.00	37.85	6
ATOM	2969					1.263				1.00	37.95	. 8
2 mOM		0 0	LYS A	3/0	1.	1.20	. 10.3					

								1 00 37 79	7
3 TOM	2971	N	ALA A	371	11.827	20.944			
MOTA			ALA A	371	13.264	20.704	68.340		6
ATOM	2972	CA			14.007	22.030		1.00 37.73	6
ATOM	2973	CB	ALA A	371			•••		6
MOTA	2974	С	ALA A	371	13.719	19.972			
			ALA A	371	14.424	18.964	69.525		8
MOTA	2975	0	WING IS	272	13.317	20.478	70.766	1.00 33.96	7
MOTA	2976	N	ALA A	3/2				1.00 32.22	6
ATOM	2977	CA	ALA A	372	13.695	19.848	72.024	• • • • • •	
	_	CB	ALA A	372	12.946	20.486	73.165	1.00 28.27	6
MOTA	2978		ALLA A	772	13.372	18.362	71.953	1.00 31.75	6
ATOM	2979	С	ALA A	312			72.338	1.00 31.56	8
ATOM	2980	0	ALA A	372	14.183	17.517			7
		N	ALA A	373 -	12.187	18.059	71.432	1.00 32.72	
MOTA	2981				11.710	16.684	71.305	1.00 32.32	6
MOTA	2982	CA	ALA A	3/3			71.103	1.00 30.18	6
MOTA	2983	CB	ALA A	373	10.206	16.689			6
	2984	C	ALA A	373	12.385	15.921	70.172	1.00 33.13	
MOTA			AUA A	272	13.078	.14.926	70.468	1.00 35.87	8
ATOM	2985	OTI	ALA A	3/3			69.003	1.00 34.11	8
ATOM	2986	OT2	ALA A	373	12.218	16.320			6
	2987	ZN	ZN Z	951	22.693	34.497	53.990		
MOTA				1	35.654	44.211	49.416	1.00 9.27	8
ATOM	2988	OHZ	WAT S			33.130	53.069	1.00 21.27	8
MOTA	2989	OH2	WAT S	2	24.480			1.00 14.69	8
ATOM	2990	OH2	WAT S	3	22.124	30.277	59.314		
	_	0113	WAT S	4	13.839	20.611	75.741	1.00 27.94	8
MOTA	2991	Onz	WAIS		34.033	41.903	46.522	1.00 44.54	8
MOTA	2992		WAT S	5	_		55.781	1.00 23.79	8
MOTA	2993	OH2	WAT S	6	15.039	42.130			
			WAT S	7	32.737	41.397	75.900	1.00 15.80	8
MOTA	2994				11.367	22.606	58.814	1.00 23.37	8
ATOM	2995	OH2	WAT S	8			65.105	1.00 29.93	8
MOTA	2996	OH2	WAT S	9	13.909	18.160			8
	2997	OH 2	Z TAV	10	29.655	56.108	58.029	• • • • • • • • • • • • • • • • • • • •	
ATOM				11	45.405	17.964	51.885	1.00 9.28	8
MOTA	2998	OHZ	WAT S	-		35.873	34.515	1.00 32.78	8
MOTA	2999		WAT S	12	21.870			1.00 28.85	8
ATOM	3000	OHZ	WAT S	13	43.504	35.670	33.779	1.00 20.03	
			WAT S	14	2.054	37.997	68.430	1.00 40.53	8
MOTA	3001	Onz	WAIS		49.730		55.966	1.00 21.42	8
ATOM	3002	OH	WAT S	15			34.336	1.00 26.13	8 .
ATOM	3003	OH	WAT S	16	47.503			1.00 20.23	8
			WAT S	17	6.101	26.102	64.434	1.00 21.69	
MOTA	3004			18	10.761	46.748	45.836	1.00 15.79	8
ATOM	3005		2 WAT S				61.441	1.00 16.68	8
MOTA	3006		WAT S	19	9.146			1.00 37.53	8
MOTA	3007	OH	WAT S	20	5.684		76.599		
		011	WAT S		14.896	33.163	49.117	1.00 34.17	8
MOTA	3008				43.346		36.825	1.00 35.64	8
MOTA	. 3009		2 WAT S				69.174	1.00 21.02	8
MOTA	3010	OH	2 WAT S	23	0.516			1.00 22.02	8
	3011		2 WAT S		41.270	25.444	29.717	1.00 29.80	
MOTA					17.818	29.142	54.584	1.00 27.92	8
MOTA	3012	OH		_			56.912	1.00 16.77	8
ATOM	3013	OH	2 WAT S		21.512			1.00 23.93	8
ATOM	3014	OH	2 WAT S	27	21.211		48.347		8
			2 WAT S	28	47.805	24.638	56.619	1.00 23.73	
ATOM	3015		2 1171 5	2.5	44.624	50.302	58.154	1.00 16.79	8
MOTA	3016		2 WAT S					1.00 26.61	8
ATOM	3017	ОН	2 WAT S	; 3√	31.096	10.43/	55.345	1.00 32.28	8
	3018		2 WAT S	31	39.837	7 38.833		1.00 32.20	
ATOM			2 WAT S		11.660	43.601	63.704	1.00 22.94	8
MOTA	3019				49.899			1.00 26.85	8
ATOM	3020	OH	2 WAT S	33				40	8
ATOM	3021		2 WAT S	34	34.62				8
			2 WAT S	35	26.920	6 15.913	62.444	1.00 27.01	
MOTA	3022				8.89		63.905	1.00 27.68	8
MOTA	3023		2 WAT S						8
MOTA	3024	OH	2 WAT S	37	23.38				8
			2 WAT S		48.48	4 27.990	65.270	1.00 34.00	
MOTA	3025				43.38			1.00 25.68	8
ATOM	3026	OH	2 WAT						8
ATOM	3027	OF	2 WAT 9		42.90				8
	3028	1	2 WAT	5 41	20.52	1 53.828			
ATOM					13.31			1.00 23.32	8
ATOM			2 WAT	_	9.78			1.00 33.51	8
ATOM	3030	OF	12 WAT	5 43			·		8
			12 WAT	5 44	36.08				8
ATOM			12 WAT		14.83	1 48.13	42.151		
atom			10 11A1 1	_	54.16			1 1.00 22.66	8
ATOM	3033	3 OI	12 WAT						8
ATOM		4 01	H2 WAT	s 47	38.94				8
			H2 WAT	s 48	29.98	0 18.11			8
ATOM			H2 WAT	s 49	31.87	9 50.67	3 44.52	8 1.00 24.39	0
ATCM	303	P ()	JE MWI				•		

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			E 0		39.863	14.629	64.307	1.00 24.19	8
ATOM	3037	OH2 WAT S	50					1.00 27.78	8
MOTA	3038	OH2 WAT S	51		26.119	29.471	38.549		
	3039	OH2 WAT S	52		48.070	41.589	44.011	1.00 36.38	8
MOTA			53		50.802	29.649	52.495	1.00 31,04	8
ATOM	3040	OH2 WAT S				35.532	71.585	1.00 20.96	8
MOTA	3041	OH2 WAT S	54		49.540				8
ATOM -	3042	OH2 WAT S	55		6.887	23.426	64.961	1.00 17.49	
		OH2 WAT S	56		25.698	39.891	37.674	1.00 51.51	8
atom	3043		57		45.498	44.101	55.393	1.00 37.34	8
MOTA	3044	OH2 WAT S					46.902	1.00 44.52	8
ATOM	3045	CH2 WAT S	58		44.661	34.733			
	3046	OH2 WAT S	59		21.912	21.320	79.233	1.00 26.96	8
ATOM			60		27.290	21.016	77.320	1.00 27.74	8
MOTA	3047				19.809	49.810	61.716	1.00 46.14	8
ATOM	3048	OH2 WAT S.	61	_			41.441	1.00 42.23	8
MOTA	3049	OH2 WAT S	62		30.843	18.035	41.441		
ATOM	3050	OH2 WAT S	63		19.055	33.379	60.511	1.00 28.99	8.
		OH2 WAT S	64		47.925	33.253	61.470	1.00 34.93	8
MOTA	3051		65		32.500	36.000	41.000	1.00 35.33	8 -
ATOM	3052	OH2 WAT S					44.579	1.00 34.19	8
ATOM	3053	OH2 WAT S	66		27.245	56.551			8
ATOM	3054	OH2 WAT S	67		5.176	32.914	54.669	1.00 41.89	
	3055	OH2 WAT S	68		41.159	51.018	49.348	1.00 27.31	8
ATOM	-		69		12.869	50.298	61.877	1.00 31.30	8
MOTA	3056				17.499	12.826	63.854	1.00 24.91	8
ATOM	3057	OH2 WAT S	70					1.00 18.76	8
ATOM	3058	OH2 WAT S	.71		27.152	12.189	53.999		
ATOM	3059	OH2 WAT S	72		25.213	54.809	67.866	1.00 61.35	8
		OH2 WAT S	73		17.671	48.515	53.188	1.00 37.63	8
ATOM	3060	ONZ WAT 5	74		23.765	60.846	66.579	1.00 21.81	8
ATOM	3061	OH2 WAT S				27.040	70.698	1.00 34.04	8
MOTA	3062	CH2 WAT S	75		35.535			1.00 32.20	8
ATOM	3063	CH2 WAT S	76		26.280	16.065	76.564		
	3064.	OH2 WAT S	77 .		18.451	25.555	45.150	1.00 28.55	8
ATOM		CH2 WAT S	78		10.446	61.273	48.633	1.00 44.74	8
MOTA	3065				13.256	24.051	73,017	1.00 35.45	8
ATOM	3066	OH2 WAT S	79				69.937	1.00 49.49	8
ATOM	3067	OH2 WAT S	80		23.571	13.292			
ATOM	3068	CH2 WAT S	81		29.891	18.071	46.109	1.00 22.84	8
	3069	OH2 WAT S	82		12.886	42.723	75.807	1.00 35.31	8.
MOTA			83 ·		41.348	15.471	45.004	1.00 47.24	8
MOTA	3070	OH2 WAT S				44.647	71.349	1.00 49.67	8
MOTA	3071	OHZ WAT S	84		13.406		51.882	1.00 38.15	8
ATOM	3072	OH2 WAT S	85		30.444	35.217			8
ATOM	3073	OH2 WAT S	86		5.217	40.817	61.244	1.00 19.51	
	3074	CH2 WAT S	87		8.891	21.532	56.838	1.00 30.72	8
MOTA			88		41.816	25.022	72.452	1.00 22.92	8
ATOM	3075				50.621	36.644	60.248	1.00 29.29	8
ATOM	3076	OH2 WAT S	89				49.627	1.00 45.42	8
MOTA	3077	OH2 WAT S	90		26.008	34.532		1.00 31.50	8
ATOM	3078	OH2 WAT S	91		8.131	39.168	54.903		
	3079	OH2 WAT S	92		16.591	58.091	57.551	1.00 34.73	8
MOTA			93		34.773	54.065	69.382	1.00 36.05	8 -
MOTA	3080	••••			42.105	31.720		1.00 35.49	8
ATOM	3081	OH2 WAT 5	94					1.00 35.17	8
MOTA	3082	CH2 WAT S	95		29.684	52.077	13.112	1.00 41.68	8
MOTA	3083	OH2 WAT S	96		26.411	37.426	38.934	1.00 41.00	
	3084	OH2 WAT S	97		41.183	52.989	62.927	1.00 50.77	8
ATOM		OHE WAT D	98		21.167		63.102	1.00 33.36	8
ATOM	3085	OH2 WAT S			25.060				8
MOTA	3086	OH2 WAT S	99					1.00 25.99	8
ATOM	3087	OH2 WAT S	100		37.304				. 8
	3088	OH2 WAT S	101		15.911	54.635		1.00 29.88	
ATOM		CH2 WAT S	102		48.730	25.803	59.572	1.00 37.97	8
MOTE	3089	CHZ WAI S	102		24.029			1.00 25.23	8
MOTA	3090	OH2 WAT S	103						8
ATOM	3091	OH2 WAT S	104		42.477				8
	3092	OH2 WAT S	105		29.984				
MOTA		OH2 WAT S	106		40.850	36.936	31.885	1.00 43.26	8
MOTA	3093		107		9.750			1.00 35.71	8
ATOM	3094	OH2 WAT S	107		-				8
MOTA	3095	CH2 WAT S	108		7.618				8
	3096		109		17.603				
ATOM			110		22.590	8.744	67.501	1.00 34.81	8
atom	3097		111		21.034			1.00 30.02	8
ATOM	3098								8
MOTA	3099	OH2 WAT S	112		24.791		· - - ·		8
ATON	3100	OH2 WAT S	113		40.750			7.00 34.00	8
	3101		114		7.708			1.00 34.08	
ATOM			115		32.379	5 49.13	6 77.566	1.00 27.53	8
MOTE	3102	; UAL WAI'S					•		

ATOM	3103	OH2 WAT S 116	5.	596	17.009		1.00 39.15	8
ATOM		OH2 WAT S 117	20.	194	50.998		1.00 19.73	8
ATOM	3105	OH2 WAT S 118	23.	853	64.927	-	1.00 27.16	8
ATOM	3106	OH2 WAT S 119	9.	277	43.601	-	1.00 32.31	8
MOTA	3107	OH2 WAT S 120	15.	613	24.398	46.723	1.00 55.20	8
ATOM	3108	OH2 WAT 5 121	33.	110	16.122	54.229	1.00 35.91	8
ATOM	3109	OH2 WAT S 122	26.	772	34.085	33.852	1.00 37.49	8
MOTA	3110	OH2 WAT S 123	28.	654	37.783	75.829	1.00 47.30	8
ATOM	3111	OH2 WAT S 124	49.	180	22.653	59.678	1.00 37.33	8
ATOM	3112	OH2 WAT S 125		561	27.788	65.975	1.00 67.86	8
ATOM	3113	OH2 WAT S 126	34.	251	13.344	57.366	1.00 36.18	8
ATOM	3114	OH2 WAT S 127		.215	36.854	48.117	1.00 33.63	8
ATOM	3115	OH2 WAT S 128	45.	826	19.588	41.601	1.00 44.07	8
ATOM	3116	OH2 WAT S 129	18.	. 693	56.382	64.014	1.00 47.77	8
ATOM	3117	OH2 WAT S 130		.181	24.202	36.963	1.00 32.70	8 8
ATOM	3118	OH2 WAT S 131		.160	51.901	38.133	1.00 54.07	8
ATOM	3119	OH2 WAT S 132		.904	36.558	48.679	1.00 42.21	8
MOTA	3120	OH2 WAT S 133		.851	26.029	34.353	1.00 56.33 1.00 45.99	8
ATOM	3121	OH2 WAT S 134		.925	41.533	68.647	1.00 44.50	8
ATOM	3122	OH2 WAT S 135		.590	38.382	78.167 71.166	1.00 28.17	8
ATOM	3123	OH2 WAT S 136		.384	19.317	66.487	1.00 49.31	8
MOTA	3124	OH2 WAT S 137		.982	39.823	61.863	1.00 43.42	8
ATOM	3125	OH2 WAT S 138		.317	22.286 14.196	55.622	1.00 35.55	8
MOTA	3126	OH2 WAT S 139		.248 .377	33.180	80.320	1.00 43.94	8
MOTA	3127	OH2 WAT S 140		.842	32.906	27.392	1.00 24.82	8
MOTA	3128	OH2 WAT S 141		.971	3.859	64.002	1.00 41.93	8
MOTA	3129	OH2 WAT S 142		.314	8.087	70.916	1.00 49.03	8
MOTA	3130	OH2 WAT S 143 OH2 WAT S 144		.310	39.006	64.550	1.00 32.70	8
ATOM	3131	OH2 WAT S 144 OH2 WAT S 145		.940	19.950	63.265	1.00 33.24	8
MOTA	3132	OH2 WAT S 146		.134	47.625	60.121	1.00 44.24	8
ATOM	3133 3134	OH2 WAT S 147		.035	53.746	42.337	1.00 47.82	8
ATOM	3135	OH2 WAT S 148		.767	38.897	49.651	1.00 21.86	8
ATOM	3136	OH2 WAT S 149	37	.145	57.288	47.392	1.00 36.13	8
ATOM ATOM	3137	OH2 WAT S 150	25	.171	18.011	32.273	1.00 38.04	8
ATOM	3138	OH2 WAT S 151	24	.054	43.182	55.583	1.00 41.68	8
ATOM	3139	OH2 WAT S 152		.686	64.936	52.937	1.00 60.62	8 8
ATOM	3140	OH2 WAT S 153		.084	39.543	76.589	1.00 22.62	8
ATOM	3141	OH2 WAT S 154		.110	10.159	68.662	1.00 46.98 1.00 26.45	8
MOTA	3142	OH2 WAT S 155		.675	22.905	75.335	1.00 28.45	8
ATOM	3143	OH2 WAT S 156		.506	34.799	52.857	1.00 36.27	8
MOTA	3144	OH2 WAT S 157		.583	35.051 58.311	76.446 60.390	1.00 54.69	8
ATOM	3145	OH2 WAT S 158		341	58.378	71.881	1.00 28.59	8
ATOM	3146	OH2 WAT S 159		3.473 L.829	60.543	56.138	1.00 37.67	8
ATOM	3147	OH2 WAT S 160		1.247	48.010	67.935	1.00 56.62	8
ATOM	3148	OH2 WAT S 161		2.853	33.929	77.503	1.00 29.88	8
ATOM	3149	OH2 WAT S 162		.49	26.168	59.687		8
MOTA	3150	OH2 WAT 5 163 OH2 WAT 5 164		7.424	16.480	38.895	1.00 36.86	8
MOTA	3151	OH2 WAT S 165		3.512	56.634	49.614	1.00 30.08	8
MOTA	3152	OH2 WAT S 165		721	13.394	57.919	1.00 39.47	8
ATOM	3153	OH2 WAT S 167		9.594	38.223	73.903	1.00 29.50	8
ATOM	3154 3155	OH2 WAT 5 168		1.994	48.023	74.119	1.00 38.12	8
MOTA	3156	OH2 WAT S 169		2.092	39.503	33.116	1.00 24.47	8
ATOM	3157	OH2 WAT S 170		4.547	12.749	38.054	1.00 38.65	8
ATOM	3158	OH2 WAT S 171	1	5.377	60.862	50.791	1.00 32.82	8
MOTA MOTA	3159	OH2 WAT S 172	. 3	1.854	42.110			8
ATOM	3160	OH2 WAT S 173	4	8.743	44.073			8
ATOM	3161	OH2 WAT 5 174		8.723	50.038			8
ATOM	3162	OH2 WAT S 175		4.257	18.280			8
ATOM	3163	OH2 WAT S 176		1.917			1.00 40.43	8
ATOM	3164	OH2 WAT S 177		3.921				8 8
ATOM	3165	OH2 WAT S 178		7.974	47.778			
MOTA	3166	OH2 WAT S 179		7.850				
ATOM	3167	OH2 WAT S 180		2.080				8
MOTE	3168	101	3	4.780	48.220	77.419	. T.00 20.00	0

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3169 3170 3171 3172 3173 3174 3175 3176	OH2 WA	T S 184 T S 185 T S 186 T S 187 T S 188 T S 189	43.893 29.166 51.175 18.520 44.774 30.770 22.157 11.778	21.424 51.545 46.208 30.219 9.460 39.535 50.526	52.018 28.950 62.599 42.323 38.653 69.837 78.736 68.987	1.00 47.14 1.00 45.08 1.00 33.88 1.00 50.85 1.00 45.36 1.00 32.44 1.00 37.01 1.00 41.34	8 8 8 8 8 8
ATOM ATOM	3177 3178	OH2 WA		31.339 31.165	60.910	49.439 74.907	1.00 21.88 1.00 27.47	8 8
ATOM	3179	OH2 WA		39.705	15.398	70.464	1.00 47.05	8
MOTA	3180	OH2 WA		3.668	34.304	72.937	1.00 39.82	8
ATOM	3181	OH2 WA		25.256	9.360	67.925	1.00 33.21	8
ATOM	3182	OH2 WA		47.575	17.667	48.773	1.00 40.79	8
MOTA	3183	OH2 WA	T S 196	32.017	13.045	34.633	1.00 37.00	8
MOTA	3184	OH2 WA	T S 197	35.476	7.006	64.436	1.00 49.59	´ 8
MOTA	3185	OH2 WA	T S 198	12.180	16.270	56.288	1.00 47.22	8
ATOM	3186	OH2 WA	T S 199	37.133	21.226	75.963	1.00 38.59	8
ATOM	3187	OH2 WA		40.268	15.712	48.199	1.00 39.24	8
MOTA	3188	OH2 WA		25.159	17.768	46.858	1.00 49.88	8
MOTA	3189	OH2 WA		24.593	27.104	65.727	1.00 53.46	8
MOTA	3190	OH2 WA		36.741	20.267	33.858	1.00 41.90	8
MOTA	3191	OH2 WA	_	10.013	53.930	47.546	1.00 48.06	8
MOTA	3192	OH2 WA		22.305	16.731	54.471	1.00 27.07	8
MOTA	3193		T S 206	47.454	34.778	74.101	1.00 47.44	8
ATOM	3194	OH2 WA		35.189	55.767	45.193	1.00 59.49	8
ATOM	3195	OH2 WA		37.827	18.151	36.382	1.00 45.31	8
MOTA	3196	OH2 WA	_	6.823	37.405	51.989	1.00 58.23	8
ATOM	3197	OH2 WA		32.040	43.551	36.157	1.00 30.78	8
ATOM	3198	OH2 WA		17.038	52.360	63.283	1.00 34.08	8
MOTA	3199	OH2 WA		30.001	18.471	49.568	1.00 33.92	8
MOTA MOTA	3200 3201	OH2 WA'		23.045 26.130	28.615 61.496	33.729 75.246	1.00 44.22	8 8
ATOM	3201	OH2 WA		33.881	32.473	46.604	1.00 40.49	8
ATOM	3203	OH2 WA		23.887	45.987	44.362	1.00 36.50	8
ATOM	3204	OH2 WA		6.925	42.281	65.917	1.00 36.30	8
ATOM	3205	OH2 WA		32.823	8.977	59.213	1.00 27.03	8
END	2203	····		22.323	0.5.,		2.00 2.00	J

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					rigure 18	5-1		
3 77034	•			Residue		Y Z	B Segment	ID
ATOM	1	CB	ALA :		46.725	14.971 138.20		
ATOM	2	C	ALA I		47.943	12.813 138.56		
ATOM	4	0	ALA A		48.857	13.292 137.88		
ATOM ATOM	5	N CA	ALA A		46.995	14.046 140.48		
ATOM	6	N	ALA :		46.801	13.697 139.05		
MOTA	7	CA	LYS A		47.890 48.937	11.525 138.90		
ATOM	8	СВ	LYS		48.736	10.591 138.493 9.229 139.15		
ATOM	9	CG	LYS A		48.917	9.279 140.66		
ATOM	10	CD	LYS A		48.950	7.891 141.28		
ATOM	11	CE	LYS 2		49.160	7.964 142.79		
ATOM	12	NZ	LYS A		50.423	8.663 143.16		
MOTA	13	С	LYS A		49.063	10.430 136.98		
ATOM	14	0	LYS 2	3	48.088	10.562 136.24		
ATOM	15	N	VAL 3		50.287	10.147 136.550	0 1.00 46.01	
ATOM	16	CA	VAL A		50.609	9.985 135.14	2 1.00 42.48	-
ATOM	17	CB	VAL A		51.901	10.755 134.80		
ATOM	18		VAL		52.179	10.713 133.30		
ATOM	19		VAL A		51.773	12.186 135.310	0 1.00 39.34	
ATOM ATOM	20	C	VAL A		50.787	8.510 134.80		
ATOM	21 22	O N	VAL A		51.659	7.839 135.35		
ATOM	23	CA	LYS A		49.959 50.016	8.011 133.899		
ATOM	24	CB	LYS A		48.700	6.610 133.515 5.915 133.88		
ATOM	25	CG	LYS A		48.411	5.803 135.38	7 1.00 38.40 5 1.00 42.84	
ATOM	26	CD	LYS A		49.384	4.855 136.070	1.00 42.84	•
ATOM	27	CE	LYS A		49.017	4.632 137.534	1.00 45.97	
ATOM	28	NZ	LYS A	. 5	49.045	5.894 138.322	2 1.00 51.78	
ATOM	29	C	LYS A		50.275	6.392 132.030	1.00 38.31	
ATOM	30	0	LYS A		49.992	7.253 131.201	1.00 38.13	
ATOM	31	N	LEU A		50.817	5.220 131.717	7 1.00 35.05	
ATOM	32	CA	LEU A		51.082	4.818 130.346	1.00 31.46	
ATOM ATOM	33 34	CB CG	LEU A		52.582	4.592 130.133	1.00 28.46	
ATOM	35		LEU A		53.094 52.618	4.256 128.720 2.884 128.295		
ATOM	36		LEU A		52.630	5.312 127.744	1.00 33.05 1.00 21.96	
ATOM	37	c	LEU A		50.307	3.512 127.744	1.00 21.96	
ATOM	38	0	LEU A		50.453	2.581 130.959		
ATOM	39	N	ILE A		49.459	3.456 129.145		
ATOM	40	CA	ILE A		48.676	2.255 128.893		
ATOM	41	CB	ILE A	7	47.218	2.598 128.493		
ATOM	42	CG2	ILE A		46.499	1.343 128.041		
ATOM	43		ILE A		46.447	3.172 129.688	1.00 36.59	
ATOM ATOM	44		ILE A	7	46.979	4.468 130.236		
ATOM	45 46	С 0	ILE A	7 7	49.341 49.600	1.470 127.770		•
ATOM	47		GL: A		49.638	2.009 126.695 0.201 128.029		
ATOM	48	CA	GL'. A	8	50.277	-0.614 127.016		
ATOM	49	C	GLY A	8	50.578	-2.024 127.480		
ATOM	50	0	GLY A	8	50.224	-2.421 128.592		
ATOM	51	N	THR A	9	51.238	-2.777 126.611		
MOTA	52	CA	THE A	9	51.614	-4.156 126.877	1.00 33.63	
ATOM	53	CB	A RHT	9	50.393	-5.083 126.857		
MOTA	54		THR A	9	50.827	-6.441 126.992		
ATOM	55	CG2		9	49.633	-4.931 125.548		
ATOM	56	C	THR A	9	52.567	-4.637 125.794		
ATOM	57	0	THR A	9	52.545	-4.133 124.677		
ATOM	58 50	N	LEU A	10	53.407	-5.609 126.129		
ATOM	59 60	CA	LEU A	10 10	54.345	-6.167 125.164		
atom atom	61	CB CG	LEU A	10	55.402 56.482	-7.009 125.881 -6.282 126.687		
ATOM	62		LEU A	10	55.870	-5.293 127.647		
ATCM	63		LEU A	10	57.319	-7.306 127.424		
ATCM	64	C	LEU A	10	53.591	-7.039 124.159		
ATOM	65	0	LEU A	10	54.055	-7.266 123.044	_	
ATOM	66-	N	ASP A	11	52.419	-7.519 124.557		

3 TOM	67 CA	ASP A	11		-8.369 1		1.00 53.30
MOTA	68 CB	ASP A	11	50.230	-8.608 1		1.00 52.35
ATOM	69 CG	ASP A	11	50.295	-9.331 1		1.00 53.33
ATOM	70 OD		11				1.00 52.21
MOTA	-		11	49.630	-8.883 1	.26.567	1.00 58.48
ATOM		ASP A	11	51.459		.22.257	1.00 53.33
ATOM	72 C		11	51.360	-8.626 1	21.311	1.00 54.31
ATOM	73 0	ASP A	12	51.424		22.092	1.00 51.92
MOTA	74 N	TYR A	12	51.275		20.749	1.00 51.41
MOTA	75 CA			51.328		20.755	1.00 49.05
MOTA	76 CB		12	50.164		121.421	1.00 45.48
MOTA	77 CG		12	50.296		122.686	1.00 47.08
ATOM	78 CD	•	12	49.252		123.263	1.00 47.53
ATOM	79 CE		12	48.952		120.749	1.00 43.77
MOTA		2 TYR A	12	47.906		121.310	1.00 44.16
MOTA	81 CE		12	48.061		122.566	1.00 48.67
ATOM	82 CZ	_	12	47.030		123.116	1.00 48.65
MOTA	83 OH		12	52.367		119.816	1.00 50.01
ATOM	84 C	TYR A	12			118.596	1.00 45.56
MOTA	85 O	TYR A	12	52.197 53.484		120.396	1.00 48.72
ATOM	86 N	GLY A	13		-7.458	119.599	1.00 50.56
ATOM	87 C		13	54.574		118.857	1.00 53.32
ATOM	88 C	GLY A	13	54.196		117.982	1.00 52.64
ATOM	89 O	GLY A	13	54.931		117.302	1.00 53.37
MOTA	90 N	LYS A	14	53.045			1.00 54.56
MOTA	91 C	A LYS A	14		-10.518	118.579	1.00 58.02
MOTA	92 CI	B LYS A	14			119.653	1.00 55.02
MOTA	93 -C	G LYS A	14			120.591	1.00 61.61
ATOM	94 C	D LYS A	14		-13.154	119.918	1.00 61.77
ATOM	95 C		14	• • •	-12.638	118.734	1.00 51.77
ATOM	96 N	Z LYS A	14	55.514	-13.713	118.045	1.00 52.03
ATOM	97 C	LYS A	14		-10.231	117.559	1.00 52.05
ATOM	98 0	LYS A	14	• • • •	-11.145	116.942	1.00 46.92
ATOM	99 N	TYR A	15	51.143		117.372	
ATOM	100 C		15	50.091	-8.563	116.449	1.00 47.99 1.00 50.40
MOTA	101 C		15	48.959	-7.915	117.253	
ATOM		G TYR A	15	48.456	-8.793	118.386	1.00 53.01 1.00 52.10
MOTA		D1 TYR A	15	48.166	-8.255	119.637	1.00 52.10
ATOM		E1 TYR A	15	47.722	-9.053	120.685	1.00 54.67
ATOM		D2 TYR A	15	_	-10.166	118.208	1.00 55.69
ATOM		E2 TYR A	15	47.838	-10.976	119.250	1.00 54.18
ATOM		Z TYR A	15	47.561	-10.412	120.485	1.00 55.42
MOTA		H TYR A	15		-11.208	121.520	1.00 46.20
ATOM	109	TYR A	15	50.592	-7.617		1.00 43.72
ATOM	110		15	49.933	-6.635	115.018	1.00 46.29
ATOM	111 N		16	51.758	-7.924	-	1.00 45.66
ATOM		A ARG A	16	52.347	-7.109	113.727	1.00 50.56
ATOM		B ARG A		53.779	-7.545	113.441	1.00 56.90
ATOM		G ARG A		54.677		114.636	1.00 50.72
ATOM		D ARG A		54.992	-6.388	115.315	1.00 66.70
ATOM		NE ARG A		56.021	-6.602		
ATOM		Z ARG A		57.211	-7.141		
MOTA	_	WHI ARG A		57.520			
MOTA		NH2 ARG A		58.093	-7.314		
MOTA		ARG A		51.573			
		O ARG A		50.871	-8.293	112.254	
MOTA		N TYR A		51.715		111.514	
ATOM .		CA TYR A		51.067			
MOTA		CB TYR A		50.913	-5.072		
ATOM		CG TYR A		49.744	-4.25	_	
ATOM		CD1 TYR A	_	49.598			
ATOM		CE1 TYR		48.540	-3.184	4 111.909	
ATOM		CD2 TYR A		48.807		0 109,204	1.00 25.78
ATOM		CE2 TYR		47.752	_	5 109.656	1.00 26.34
ATOM		CZ TYR		47.626	-2.65	9 111.009	1.00 27.28
ATOM		OH TYR	·	46.602	2 -1.84	2 111.450	1.00 22.04
ATOM		C TYR	_	51.972	2 -7.35	0 109.36	8 1.00 41.52
ומו זידי ב	ڪ لانڌ						

- mov	133	0	TYR A	17	53.150	-7.525	109.683	1.00 35.63
MOTA							108.278	1.00 46.68
ATOM	134	N .	PRO A	18	51.440			
ATOM	135	CD	PRO A	18	50.076	-7.765	107.755	1.00 47.16
					52.205	-8.812	107.392	1.00 48.87
ATOM	136	CA	PRO A	18		_		
MOTA	137	CB	PRO A	18	51.213	-9.091	106.262	1.00 48.14
		CG	PRO A	18	50.343	-7.837	106.274	1.00 55.13
MOTA	138					-8.303	106.885	1.00 49.57
ATOM	139	С	PRO A	18	53.556		-	
	140	0	PRO A	18	53.788	-7.101	106.766	1.00 49.33
MOTA					54.432	-9.261	106.592	1.00 53.22
ATOM	141	N	LYS A	19				
ATOM	142	CA	LYS A	19	55.800	-9.044	106.114	1.00 57.00
			LYS A	19	56.223	-10.242	105.252	1.00 62.34
MOTA	143	CB					104.537	1.00 67.94
ATOM	144	CG	LYS A	19		-10.929		
ATCM	145	CD	LYS A	19	54.239	-9.963	103.714	1.00 70.76
			LYS A	19	53 004	-10.653	103.162	1.00 73.70
MOTA	146	CE						1.00 79.01
ATOM	147	NZ	LYS A	19	52.116	-9.701	102.442	
	148	С	LYS A	19	56.229	-7.757	105.405	1.00 55.93
MOTA					57.230	-7.150	105.796	1.00 59.86
ATOM	149	0	LYS A	19				
MOTA	150	N	ASN A	20	55.515	-7.338	104.367	1.00 49.62
	151	CA	ASN A	20	55.925	-6.130	103.652	1.00 50.02
ATOM					55.829		102.143	1.00 50.62
ATOM	152	CB	ASN A	20				
ATOM	153	CG	ASN A	20	56.729	-7.487	101.670	1.00 51.26
	154	ODI	ASN A	20	57.948	-7.437	101.843	1.00 46.88
MOTA						-8.513	101.074	1.00 50.85
ATOM	155	ND2	ASN A	20	56.130			
ATOM	156	С	ASN A	20	55.167	-4.862	104.023	1.00 45.50
				20	55.481	-3.778	103.533	1.00 45.35
MOTA	157	0	ASN A				104.899	1.00 37.46
ATOM	158	N	HIS A	21	54.182	-4.997		
ATCM	159	CA	HIS A	21	53.374	-3.863	105.321	1.00 32.39
				21	52.198	-4,355	106.162	1.00 29.34
ATCM	160	CB	HIS A					1.00 30.50
ATOM	161	CG	HIS A	21	51.118	-3.339	106.348	
ATOM	162	CD2	HIS A	21	50.999	-2.314	107.223	1.00 22.88
					49.993	-3.298	105.552	1.00 30.15
ATOM	163		HIS A	21				
ATOM	164	CE1	HIS A	21	49.226	-2.293	105.933	1.00 30.96
	165		HIS A	21	49.814	-1.680	106.945	1.00 36.41
MOTA					54.194	-2:879		1.00 29.18
ATOM	166	C	HIS A	21				
MOTA	167	0	HIS A	21	55.030	-3.279	106.963	1.00 26.92
	168	N	PRO A	22	53.965	-1.572	105.969	1.00 31.12
MOTA					53.027	-0.912	105.043	1.00 29.46
ATOM	169	CD	PRO A	22				
ATOM	170	CA	PRO A	22	54.702	-0.567		1.00 29.27
	171	CB	PRO A	22	54.012	0.732	106.326	1.00 26.00
ATOM					53.670	0.434		1.00 31.52
ATOM	172	CG	PRO A	22				
ATOM	173	С	PRO A	22	54.624	-0.822	108.253	1.00 29.96
	174	ō	PRO A	22	55.575	-0.538	108.981	1.00 27.47
ATOM					53.501		108.715	1.00 26.64
ATOM	175	N	LEU A	23				
ATOM	176	CA	LEU A	23	53.309	-1.644		1.00 30.44
	177	CB	LEU A	23	51.833	-1.428	110.515	1.00 24.09
ATOM					51.356		110.479	1.00 25.30
ATOM	178	CG		23		0.025	110.475	
ATCM	179	CD1	LEU A	23	49.836	0.103	110.668	1.00 17.72
	180		LEU A	23	52.086	0.816	111.574	1.00 24.15
MOTA					53.775		110.662	1.00 31.64
ATOM	181	С	LEU A	23				
ATCM	182	0	LEU A	23	53.252		111.667	1.00 31.00
	183	N	LYS A	24	54.753	-3.636	110.012	1.00 28.25
MOTA					55.200		110.513	1.00 30.90
ATCM	184	CA	LYS A	24				
ATOM	185	CB	LYS A	24	55.718	-5.810	109.372	1.00 36.59
	186		LYS A	24	57.178	-5.650	108.982	1.00 40.77
MOTA		CG				_/ 250	108.535	1.00 44.51
MOTA	187	CD	LYS A	24	57.546			1.00 50.44
ATOM	188	CE	LYS A	24	58.858		107.755	1.00 50.44
				24	59.959	-4.990	108.487	1.00 51.30
ATCM	189	NZ	LYS A					1.00 32.57
ATOM	190	С	LYS A	24	56.282		111.581	1.00 32.37
ATOM	191	Ō	LYS A		56.695	-5.683	112.245	1.00 29.83
					56.729	-3 497	111.750	1.00 27.06
ATOM	192	Ŋ	ILE A			2.32/	112 730	1.00 30.45
ATOM	193	CA	ILE A		57.755	-3.200	112.739	1.00 30.43
ATOM	194	CB	ILE A		58.416	-1.822	112.499	1.00 33.37
					59.056	-1 757	111.120	1.00 33.22
ATCM	195	CG2				0.701	112.662	1.00 30.45
ATOM	196		ILE A		57.361	-0.722	112.002	1.00 30.43
· ATCM	197		ILE A		57.930	0.689	112.700	1.00 33.12
					57.156	-3 126	114.141	1.00 32.10
ATOM	198	C	ILE A	43	٠,٠٢٥٥			

		_	** 5 3	25		55.967	-2.851	114.310	1.00 28.15
MOTA	199	0	ILE A			57.979	-3 382	115.168	1.00 31.64
MOTA	200	N	PBO A	26		59.395		115.139	1.00 31.11
MOTA	201	CD	PRO A	26		57.507		116.556	1.00 31.04
MOTA	202	CA	PRO A	26		58.709	-3.322	117.347	1.00 32.41
ATOM	203	CB	PRO A	26				116.324	1.00 39.33
ATOM	204	CG	PRO A	26		59.454		116.329	1.00 28.42
MOTA	205	С.	PRO A	26		57.265		116.827	1.00 22.23
ATOM	206	0	PRO A	26		58.001			1.00 24.16
MOTA	207	N	ARG A	27		56.251	-1.514	117.614	1.00 28.53
ATOM	208	CA	ARG A	27		55.977	-0.116	117.899	1.00 20.33
ATOM	209	CB	ARG A	27	•	54.787		117.048	1.00 29.64
MOTA	210	CG	ARG A	27		55.075	0.191		1.00 26.61
ATOM	211	CD	ARG A	27		53.918	0.538	114.620	1.00 28.52
ATOM	212	NE	ARG A	27		53.622	1.965	114.517	1.00 29.70
ATOM	213	CZ	ARG A	27		52.649	2.591	115.173	1.00 30.17
ATOM	214		ARG A	27		51.857	1.924	115.9 99 114.983	1.00 23.25
MOTA	215	NH2	ARG A	27		52.451		114.363	1.00 23.23
MOTA	216	С	ARG A	27		55.746		120.113	1.00 24.60
MOTA	217	0	ARG A	27		56.679	0.490	119.863	1.00 23.51
ATOM	218	11	VAL A	28		54.529	-0.117	121.282	1.00 29.33
MOTA	21,9	CA	VAL A	28		54.282	0.093	121.282	1.00 34.56
MOTA	220	CB	VAL A	28		52.800	-0.124	123.142	1.00 32.42
ATOM	221	CG1		28		52.599		123.142	1.00 33.77
ATOM	222	CG2		28		51.947	0.908	120.303	1.00 29.75
ATOM	223	C	VAL À	28		55.158		123.182	1.00 32.49
MOTA	224	0	VAL A	28		55.673	-0.394		1.00 26.09
ATOM	225	N	SER A	29		55.341	-2.059	122.483	1.00 31.39
ATOM	226	CA	SER A	29	•	56.162	-2.302	121.905	1.00 26.92
MOTA	227	CB	SER A	29		56.058 56.562	-4.399	120.579	1.00 33.85
ATOM	228	ЭG	SER A	29		57.609	-2.482		1.00 34.77
ATOM	229	С	SER A	29		58.378	-2.402	123.391	1.00 29.39
MOTA	230	C	SER A	29		57.967	-1 778	121.380	1.00 31.20
ATOM	231	71	LEU A	30		59.317	-1 234	121.240	1.00 32.03
MOTA	232	CA	LEU A	30		59.554	-0 668	119.829	1.00 30.86
MOTA	233	CB	LEU A	30		61.008	-0.550		1.00 33.22
ATOM	234	CG	LEU A	30 30	•	61.066	0.484		1.00 28.76
ATOM	235	CDI		30		61.948	-0.135		1.00 35.11
ATOM	236	CD2	LEU A	30		59.423	-0.089	122.236	1.00 30.29
MOTA	237	C	LEU A	30		60.397	0.019	122.984	1.00 27.69
ATOM	238	.J	LEU A	31		58.408	0.769	122.232	1.00 27.38
ATOM	239	N	LEU A	31		58.372	1.919	123.126	1.00 24.94
MOTA	240	CA CB	LEU A	31		57.008	2.596	5 123.042	1.00 24.92
ATOM	241	CG	LEU A	31		56.918	4.069	123.460	1.00 30.49
MOTA	242 243		1 LEU A	31		55.492	4.390	123.881	1.00 24.71
MOTA	244		2 LEU A	31		57.851	4.35	5 124.603	1.00 27.32
MOTA	245		LEU A	31		58.610	1.42	9 124.564	1.00 28.18
MOTA	246		LEU A			59.489	1.92	B 125.263	1.00 33.64
ATOM ATOM	247		LEU A			57.831	0.44	5 125.000	1.00 30.17
	248		LEU A			57.965	-0.08	4 126.357	1.00 30.59
MOTA MOTA	249		LEU A			56.944	-1.20	6 126.601	1.00 30.55
ATOM	250		LEU A			55.458		9 126.402	1.00 29.50
ATOM	251		1 LEU A			54.611		7 126.727	1.00 28.31
MOTA	. 252		2 LEU A			55.058		3. 127.287	1.00 31.92
MOTA	253		LEU A			59.376		7 126.657	
MOTA	254		LEU A			59.961	-0.24		
ATOM	255		ARG A			59.926			
ATOM	256		_			61.271			
ATOM	257		_			61.630			
ATOM	258					60.814			
ATOM	259			33		61.237			
ATOM	260					60.515			
ATOM	261	L CZ	ARG A	33		60.611	-7.38	4 125.014	
ATOM	262		11 ARG A			61.402		1 126.045	
MOTA	263		2 ARG A	33		59,911		1 124.991	
ATOM	26		ARG A			62.314	-0.84	15 125.978) I.OU Ji.i.

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	266 1 267 268 269 270 271 272 273 274 275 276 277	CCEZ CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ASP A A A A A A A A A A A A A A A A A A	38 38 39 39 39 39 39 39 39 40 40 40 40 40 40 40 41		63.203 63.203 63.042 63.653 63.653 64.825 63.458 65.7416 65.589 64.416 65.589 64.416 65.0856 64.416 65.205 66.403 67.752 68.205 68.205 69.806	0.146 1.253 2.180 3.202 2.819 4.546 3.763 5.501 5.108 2.042 2.4391 3.576 4.5974 3.827 2.387 2.933 1.086 0.233 -1.178 0.181 0.127 0.181 0.187 0.187 0.188 4.744 5.298 4.744 5.298 5.407 3.3494 5.298 5.407 7.075 8.031 4.599 6.617 7.775 8.031 6.404 6.404 6.406 6.404 6.406 6.404 6.406 6.404 6.406 6.	123.858 123.486 122.838 123.781 122.484 123.435 122.783 126.305 126.852 128.042 128.042 128.374 127.395 127.688 129.183 130.043 129.190 130.242 130.126 131.157 132.360 130.765 130.765 130.765 130.765 130.765 130.765 130.768 128.768 129.244 129.213 129.545 129.545 129.545 129.545 129.545 129.545 129.545 129.545 129.545 129.545 129.545 129.714 129.545 131.657 131.657 131.657 131.657 131.657 133.979 134.074 133.979 134.074 133.979 134.050 132.170 132.201 133.124 133.520	1.00 40.42 1.00 40.40 1.00 32.75 1.00 38.89 1.00 38.97 1.00 32.32 1.00 38.57 1.00 42.43
								1 131.513	
								0 132.505	
								9 132.213	1.00 32.32
							4.46	1 133.124	1.00 38.57
							4.10	9 133.520	1.00 42.43
ATOM	325	CB				58.536	3.57	5 132.330	1.00 39.13
ATOM	326	CG		41		.59.137		1 131.820	
ATOM	327	CG	1 ILE ?			57.082		7 132.774 0 131.676	
ATOM	328	CD				56.147 59.376		6 134.619	
ATOM	329	C	ILE A			60.255	2 19	5 134.654	
ATCM	330	0	ILE 2	. 47		00.230	. 2		

			, CD ,	42	58.414	3.148 1	35.532	1.00 47.83
ATOM	331	N	ASP A		58.301	2.183 1		1.00 49.23
ATOM	332	CA	ASP A	42		2.880 1		1.00 46.60
MOTA	333	CB	ASP A	42	58.243			1.00 52.63
ATOM	334	CG	ASP A	42	59.493			1.00 49.28
MOTA	335	OD1	ASP A	42	60.614			
ATOM	336	OD2	ASP A	42	59.355		.38.678	1.00 52.47
ATOM	337	C	ASP A	42	57.034	1.368 1		1.00 51.22
	338	ō	ASP A	42	56.048	1.866 1	135.864	1.00 48.07
MOTA			GLU A	43	57.072	0.111 1	136.832	1.00 51.41
ATOM	339	N		43	55.945	-0.792 1		1.00 50.67
MOTA	340	CA	GLU A		56.234	-2.094		1.00 54.49
MOTA	341	CB	GLU A	43	55.208	-3.178	137.185	1.00 60.55
MOTA	342	CG	GLU A	43			137.183	1.00 66.12
MOTA	343	CD	GLU A	43	55.524			1.00 70.33
ATOM	344	OE1	GLU A	43	54.761	-5.417		
ATOM	345	OE2	GLU A	43	56.536		138.711	1.00 67.39
ATOM	346	C	GLU A	43	54.645		137.178	1.00 50.20
	347	ō	GLU A	43	53.567	-0.475	136.658	1.00 48.27
MOTA	348	N	LYS A	44	54.755	0.683	138.186	1.00 49.04
MOTA			LYS A	44	53.601		138.778	1.00 47.56
ATOM	349	CA			54.013		140.112	1.00 54.73
MOTA	350	CB	LYS A	44	53.190		140.542	1.00 58.07
MOTA	351	CG	LYS A	44			139.853	1.00 61.24
ATOM	352	CD	LYS A	44	53.705		140.151	1.00 61.93
ATOM	353	CE	LYS A	44	52.849			1.00 62.80
ATOM	354	NZ	LYS A	44	51.501		139.519	
ATOM	355	C	LYS A	44	52.929		137.875	1.00 44.52
	356	Õ	LYS A	44	51.752	2.701	138.052	1.00 45.31
MOTA			GLU A	45	53.674	2.915	136.914	1.00 41.03
ATOM	357	N			53.140		135.994	1.00 41.23
MOTA	358	CA	GLU A	45	54.271		135.500	1.00 38.52
MOTA	359	CB	GLU A	45	54.973		136.589	1.00 40.30
MOTA	360	CG	GLU A	45				1.00 38.06
ATOM	361	CD	GLU A	45	56.241	6.222	136.096	1.00 36.93
MOTA	362	OE1	GLU A	45	57.170		135.715	1.00 30.33
ATOM	363	OE2		45	56.306		136.084	1.00 32.57
MOTA	364	Ç	GLU A	45.	52.479	3:253	134.791	1.00 40.69
	365	Ö	GLU A	45	51.783	3.907	134.015	1.00 39.77
MOTA			LEU A		52.700	1.953	134.645	1.00 36.90
MOTA	366	N			52.165	1.207	133.517	1.00 40.46
MOTA	367	CA	LEU A		53.222	0.219	133.034	1.00 35.52
ATOM	368	CB	LEU A		52.873	-0.619	131.811	1.00 43.75
ATOM	369	CG	LEU A			0.292	130.630	1.00 42.06
ATOM	370	CD1			52.571		131.500	1.00 42.90
MOTA	371	CD2	LEU A		54.035			1.00 40.03
ATOM	372	С	LEU A	46	50.852		133.780	
ATOM	373	0	LEU A	46	50.741			1.00 39.37
	374	N	ILE A		49.861	0.718		1.00 34.03
ATOM	375	CA	ILE A		48.560	0.068	133.033	1.00 32.12
MOTA		CB	ILE A	_	47.413	1.087	132.937	1.00 32.35
TOM	376				46.069		132.833	1.00 30.60
MOTe	377	CG			47.448		134.156	1.00 36.56
LIOM	378	CG			46.372		134.162	1.00 35.46
ATOM	379	CD:					131.882	1.00 33.67
ATOM	380	С	ILE A		48.428		131.002	1.00 27.64
ATOM	381	0	ILE A	47	48.505		130.717	1.00 32.98
ATOM	382		LYS A	48	48.231	2.195	132.205	
MOTA	383		LYS A		48.102	3.224	131.176	1.00 30.98
	384				48.038	4.609	131.821	1.00 39.21
MOTA					47.956	-5.747	130.819	1.00 46.81
MOTA	385			·	47.989			1.00 50.75
ATOM	386				47.96	7 -8 240	130.492	1.00 54.43
MOTA	387				_			
ATOM	388				49.15			
ATOM	389	C	LYS A		46.86			
ATOM	390		LYS	A 48	45.76			
ATOM	391		SER		47.07	1 -2.992		
	392			_	45.98			
ATOM					46.55	1 -2.805	126.609	1.00 31.53
ATOM	393				47.57			1.00 30.74
atom	394				44.95			1.00 31.31
MOTA	395		SER		45.29			
ATOM.	396	5 0	SER	A 49	43.43	J - J. UJ.	,	-

MOTA	397 i	N i	ARG A	50	43.688			1.00 32.87
ATOM			ABG A	50	42.632	-4.582		1.00 31.45 1.00 28.35
ATOM		CB .	ARG A	50	41.636			1.00 28.33
ATOM	400	CG .	ARG A	50	40.729		130.008	1.00 30.46
MOTA	401		ARG A	50	39.653		129.964	1.00 25.21
MOTA			ARG A	50	38.821		129.904	1.00 28.32
MOTA			ARG A	50	37.930 37.726	-2.406	128.001	1.00 25.45
MOTA	_		ARG A	50	37.728		129.087	1.00 24.92
MOTA			ARG A	50	41.894		126.638	1.00 31.12
ATOM.			ARG A	50 50	41.895	-3.406	126.019	1.00 24.62
MOTA			ARG A	51	41.264	-5.566	126.181	1.00 32.55
MOTA			PRO A	51	41.164	-6.921	126.751	1.00 32.40
ATOM	•	CD CA	PRO A	51	40.534	-5.506	124.917	1.00 30.36
MOTA		CB	PRO A	51	40.138		124.683	1.00 33.95
MOTA MOTA		CG	PRO A	51	41.173		125.499	1.00 32.85
ATOM	413	C	PRO A	51	39.309		125.134	1.00 31.61 1.00 29.84
ATOM	414	0	PRO A	51	38.877	-4.431	126.267 124.058	1.00 29.09
ATOM	415	N	ALA A	52	38.755	-4.093 -3.294	124.038	1.00 29.61
MOTA	416	CA	ALA A	52	37.556 37.365	-3.294 -2.447	122.956	1.00 28.67
ATOM	417	CB	ALA A	52	36.437		124.288	1.00 32.39
ATOM	418	С	ALA A	52	36.603	-5.453	123.844	1.00 30.40
MOTA	419	0	ALA A	52 53	35.318	-3.947	124.896	1.00 32.98
MOTA	420	N	THR A	53	34.192	-4.868	124.997	1.00 36.61
MOTA	421 422	CA CB	THR A	53	33.253	-4.514	126.166	1.00 34.22
ATOM ATOM	423	OG1	THR A	53	32.734			1.00 29.52
ATOM	424	CG2		53	33.998	-4.579	127.493	1.00 36.45 1.00 38.94
ATOM	425	C	THR A	53	33.411		123.702	1.00 38.94
ATOM	426	0	THR A	53	33.559	-3.689	123.012 123.372	1.00 32.07
ATOM	427	N	LYS A	54	32.577 31.792	-5.0/5	122.152	1.00 40.71
MOTA	428	CA	LYS A	54	30.933	-6 851	121.994	1.00 41.68
MOTA	429	CB	LYS A	54 54	30.367	-7.034	120.597	1.00 49.42
ATOM	430	CG	LYS A	54	29.541	-8.310	120.508	1.00 51.82
MOTA	431 432	CD	LYS A	54	29.075	-8.588	119.087	1.00 52.94
ATOM ATOM	433	NZ	LYS A	54	30.216	-8.879	118.182	1.00 54.26
MOTA	434	C	LYS A	54	30.913		122.237	1.00 39.46 1.00 37.19
MOTA	435	Ō	LYS A	54	30.719	-3.637		1.00 37.19
ATOM	436	N	GLU A	55	30.404	-4.079 -2.91		1.00 36.18
ATOM	437	CA	GLU A	55	29.554 29.109	-2.91.		1.00 42.16
MOTA	438	CB	GLU A	55	28.223		125.476	1.00 46.04
ATOM	439	CG	GLU A	55 55	27.873	-1.639		1.00 51.15
ATOM	440 441	CD OE1	GLU A GLU A		27.092	-0.74	B 127.343	1.00 56.53
MOTA	442		GLU A		28.382		2 127.72°	1.00 51.67
ATOM ATOM	443	C	GLU A		30.278		7 123.32:	1.00 35.45
ATOM	444	ō	GLU A		29.721		9 122.66	1.00 29.11 1.00 27.82
ATOM	445	N	GLU A		31.518		6 123.776 9 123.497	
ATOM	446	CA	GLU A		32.289		9 123.437	
ATOM	447	CB	GLU A		33.635 33.474		4 125.746	
MOTA	448	CG	GLU A		34.787		5 126.479	
MOTA	449	CD			35.645		4 125.986	1.00 34.54
MOTA	450	OE.	1 GLU A 2 GLU A		34.951		4 127.569	1.00 33.25
MOTA	451 452	C C	GLU A		32.495	-0.10	4 121.988	1.00 32.51
ATCM 2 TOM	453	0	GLU A		32.341	L 0.99	0 121.444	1.00 29.59
ATOM ATOM	454	N	LEU A	_	32.827		6 121.311	1.00 35.58
ATOM	455	CA		57	33.039		7 119.871	1.00 35.70
ATOM	456	CB	LEU A	57	33.47			
ATOM	457	CG	LEU ?		34.829	9 -3.03	0 119.81	
ATCM	458	CD	1 LEU A	A 57	35.09! 35.92!		11 119.43	3 1.00 32.61
ATOM	459		2 LEU A	A 57 A 57	31.77	2 -0.71	[7 119.15	7 1.00 36.02
ATOM	460		LEU A		31.82	8 0.06	57 118.20	5 1.00 32.72
ATOM	461 462		LEU		30.63		28 119.62	0 1.00 32.35
ATCM	402	. 14						

1 mov	463 CA LEU A 58	29.353 -	0.898 119.004 1.0	0 33.21
ATOM		28.260 -		0 35.17
ATOM	404 65		3.296 119.077 1.0	0 33.71
MOTA	465 CG LEU A 58		4.166 119.524 1.0	
MOTA	466 CD1 LEU A 58			
ATOM	467 CD2 LEU A 58			
	468 C LEU A 58	28.940	0.543 119.222 1.0	0 30.99
ATOM	400 5 550	27.915	0.985 118.700 1.0	
MOTE	400	29.733	1.279 119.993 1.0	0 32.55
MOTA		29.443	2.687 120.217 1.0	0 30.37
MOTA	471 CA LEU A 59	30.387	3.279 121.268 1.0	0 28.01
MOTA	472 CB LEU A 59		2.828 122.716 1.0	
ATOM	473 CG LEU A 59	30.174	1.010 11-	
ATOM	474 CD1 LEU A 59	31.248	J. 70	
ATOM	475 CD2 LEU A 59	28.785	3.263 123.192 1.0	
ATOM	476 C LEU A 59	29.632	3.405 118.890 1.0	
	477 O LEU A 59	29.020	4.442 118.652 1.0	
ATOM	478 N PHE A 60	30.482	2.850 118.026 1.0	
ATOM	970	30.726	3.454 116.716 1.0	
MOTA	4/7	32.131	4.055 116.637 1.0	00 29.99
MOTA	400 62 100	32.443	4.691 115.299 1.0	00 28.88
MOTA	481 CG PHE A 60	31.706	5.780 114.845 1.0	00 25.58
MOTA	482 CD1 PHE A 60	33.448	4.178 114.479 1.0	
ATOM	483 CD2 PHE A 60		6.351 113.592 1.0	
MOTA	484 CE1 PHE A 60	31.959		
ATOM	485 CE2 PHE A 60	33.709	3U ==	
ATOM	486 CZ PHE A 60	32.963	5.828 112.781 1.	
ATOM	487 C PHE A 60	30.536	2.520 115.529 1.	
	488 0 PHE A 60	29.810	2.854 114.602 1.	
ATOM	489 N HIS A 61	31.195	1.505 145.5	00 32.85
ATOM	490 CA HIS A 61	31.075		00 34.59
MOTA	450 0 1122	32.296	0.454 11.00	00 32.89
MOTA	401 00 000	33.576	0.238 114.116 1.	00 34.25
MOTA	455 00 1155	34.225	0.532 112.967 1.	00 34.67
MOTA	455 000	34.328	0.786 115.133 1.	00 37.78
MOTA	7,0	35.390	1.382 114.619 1.	00 37.50
MOTA	495 CE1 HIS A 61	35.350	1.243 113.307 1.	00 37.91
ATOM	496 NEZ HIS A 61	29.824		00 38.44
MOTA	497 C HIS A 61	29.824	-0.343	00 35.78
ATOM	498 0 HIS A 61		-1.015 113.327 1.	00 39.73
ATOM	499 N THR A 62	29.462		00 38.05
ATOM	500 CA THR A 62	28.278	1.000	00 37.22
ATOM	501 CB THR A 62	27.682	1.023 11.02	00 41.15
ATOM	502 OG1 THR A 62	28.631	2.3.4	.00 38.27
MOTA	503 CG2 THR A 62	27.348	0.10	.00 39.06
ATOM	504 C THR A 62	28.598		.00 39.32
ATOM	505 0 THR A 62	29.731	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.00 40.92
ATOM	506 N GLU A 63	27.582	3.00	
ATOM	507 CA GLU A 63	27.696		.00 40.68 .00 43.19
	508 CB GLU A 63	26.303	-0.000 III	.00 45 .15
ATOM	509 CG GLU A 63	26.269		.00 46.90
ATOM	510 CD GLU A 63	26.472		.00 53.11
ATOM	511 OE1 GLU A 63	26.601		.00 52.78
ATOM	512 OE2 GLU A 63	26.487		.00 57.24
ATOM	312 322 323	28.320		.00 36.19
ATOM	313 6 626	29.272		.00 29.70
ATOM	217 0 000	27.755	-6.119 112.074 1	.00 35.85
atom		28.198	-6.841 110.886 1	.00 37.61
ATOM	3.00 0	27.363	-6 382 109.697 1	.00 43.30
ATOM	517 CB ASP A 64	27.313	-4.872 109.582 1	.00 53.38
ATOM	518 CG ASP A 64	28.290	-4.269 109.089 1	00 52.15
ATOM	519 OD1 ASP A 64	20.430	-4.285 110.018 1	.00 53.97
ATOM	520 DD2 ASP A 64	26.298	-6.660 110.594	.00 35.04
MOTA	521 C ASP A 64	29.673	-7.625 110.303 I	.00 33.60
ATOM	522 D ASP A 64	30.379		.00 33.88
ATOM	523 N TYR A 65	30.144		1.00 32.91
ATOM	524 CA TYR A 65	31.554		1.00 34.80
ATOM	525 CB TYR A 65	31.793		1.00 35.19
ATOM	526 CG TYR A 65	33.247		1.00 28.43
	527 CD1 TYR A 65	34.009	- 3	1.00 28.4
ATOM	528 CE1 TYR A 65	35.352	-3.411 109.024	1.00 32.34
atom			,	

ATOM	529	CD2 TYR A	65	33.863 -2.398 111.134 1.00 34.08
ATOM	530	CE2 TYR A	65	35.211 -2.050 111.002 1.00 29.89
ATOM	531	CZ TYR A	65	35.949 -2.560 109.948 1.00 35.29
ATOM	532	OH TYR A	65	37.286 -2.231 109.825 1.00 29.81
ATOM	533	C TYR A	65	32.405 -5.813 111.504 1.00 27.65
ATOM	534	O TYR A	65	33.339 -6.557 111.209 1.00 27.65
MOTA	535	N ILE A	66	32.070 -5.559 112.765 1.00 27.32 32.822 -6.153 113.858 1.00 25.82
ATOM	536	CA ILE A	66	32.022
ATOM	537	CB ILE A	66	52.22
ATOM	538	CG2-ILE A	66	33.023
MOTA	539	CG1 ILE A	66	32.220
MOTA	540	CD1 ILE A	66	35.00.
MOTA	541	C ILE A	66	32.836 -7.677 113.736 1.00 31.21 33.891 -8.305 113.844 1.00 30.25
MOTA	542	O ILE A	66 67	31.672 -8.279 113.507 1.00 33.28
ATOM	543	N ASN A	67	31.627 -9.731 113.372 1.00 35.87
ATOM	544	CA ASN A	67	30.190 -10.242 113.177 1.00 33.07
MOTA	545	CB ASN A	67	29.338 -10.072 114.421 1.00 37.34
ATOM	546	CG ASN A	67	29.807 -10.296 115.535 1.00 35.20
MOTA	547 548	ND2 ASN A	67	28.071 -9.709 114.236 1.00 34.83
ATOM	549	C ASN A	67	32.499 -10.198 112.219 1.00 31.00
MOTA MOTA	550	O ASN A	67	33.132 -11.248 112.306 1.00 37.26
MOTA	551	N THR A	68	32.543 -9.426 111.140 1.00 30.91
ATOM	552	CA THR A	68	33.368 -9.814 109.997 1.00 31.04
ATOM	553	CB THR A	68	33.133 -8.894 108.792 1.00 34.01 31 780 -9.037 108.352 1.00 33.26
ATOM	554	OG1 THR A	68	
ATOM	55 5	CG2 THR A	68	3.00 20 21
ATOM	556	C THR A	68	54.031
MOTA	557	O THR A	68	35.591 -10.708 110.024 1.00 32.52 35.267 -8.768 111.117 1.00 30.30
MOTA	558	N LEU A	69	36.669 -8.686 111.534 1.00 28.20
MOTA	559	CA LEU A	69	36.938 -7.409 112.351 1.00 28.25
MOTA	560	CB LEU A	69 69	36 859 -6.049 111.647 1.00 30.18
ATOM	561		69	37 154 -4:929 112.647 1.00 31.08
MOTA	562 563	CD1 LEU A	69	37.868 -6.004 110.505 1.00 27.85
MOTA	564	C LEU A	69	37.036 -9.902 112.372 1.00 31.65
MOTA MOTA	565	O LEU A		38.084 -10.519 112.165 1.00 23.95
ATOM	566	N MET A		36.169 -10.243 113.321 1.00 30.78
ATOM	567	CA MET A		36.411 -11.383 114.193 1.00 34.50 35.318 -11 486 115.258 1.00 31.96
ATOM	568	CB MET A		33.310 11.400 11.00
ATOM	569	CG MET A		33,203 10,200
MOTA	570	SD MET A		33,340 -10.434 42,112
MOTA	571	CE MET A		34.633 -11.815 118.403 1.00 37.36 36.484 -12.685 113.401 1.00 33.33
MOTA	572	C MET A		37.392 -13.488 113.607 1.00 31.47
MOTA	573	O MET A		35.534 -12.887 112.494 1.00 35.37
ATOM	574	N GLU A		35 516 -14.098 111.681 1.00 36.6
ATOM	575	CA GLU A		34.245 -14.160 110.834 1.00 37.3
ATOM	576 577	CG GLU A		34.206 -15.359 109.897 1.00 46.37
MOTA	578			34.257 -16.693 110.633 1.00 46.37
ATOM ATOM	579			34.355 -17.733 109.952 1.00 48.94
ATOM	580			34.190 -16.705 111.882 1.00 45.53
MOTA	581		_	36.732 -14.169 110.769 1.00 35.96
MOTA	.582			37.342 -15.228 110.617 1.00 32.99
ATOM	583		72	37.079 -13.039 110.159 1.00 36.50 38.225 -12.981 109.264 1.00 33.98
MOTA	584	CA ALA		JO. 22
ATOM	585	CB ALA		
ATCM	58€			
ATOM	587			40.337 -14.094 109.466 1.00 31.53 39.647 -12.873 11224 1.00 30.87
ATOM	588			40.847 -13.177 111.985 1.00 29.66
ATOM	589			11 204 -12 224 113.180 1.00 33.33
ATOM	590			42 234 -12 545 114.033 1.00 32.80
MOTA	591			42 390 -11 634 115.233 1.00 40.07
ATOM	592			42.601 -10.418 115.044 1.00 41.02
·ATOM	593			120 120 116 372 1 00 41 21
ATOM	59	* OF GLO.	rs / J	•

ATOM 595 C GLU A 73						40.906 -14.615 112.485 1.00 31.73
ATOM 596 O GLU À 73 ATOM 597 N ARG À 74 ATOM 598 CA ARG À 74 ATOM 598 CA ARG À 74 ATOM 600 CC ARG À 74 ATOM 600 CC ARG À 74 ATOM 601 CD ARG À 74 ATOM 602 NE ARG À 74 ATOM 602 NE ARG À 74 ATOM 602 NE ARG À 74 ATOM 603 NE ARG À 74 ATOM 604 NHL ARG À 74 ATOM 605 NH2 ARG À 74 ATOM 606 N SER À 75 ATOM 606 C ARG À 74 ATOM 607 O ARG À 74 ATOM 608 N SER À 75 ATOM 609 CX SER À 75 ATOM 609 CX SER À 75 ATOM 610 CB SER À 77 ATOM 610 CB S	ATOM	595	С	GLU A	73	10.500 23.025 222.302
ATOM 599 CB ARG A 74 39.9798 -15.145 112.992 1.00 35. ATOM 599 CB ARG A 74 38.548 -16.511 113.502 1.00 43. ATOM 599 CB ARG A 74 37.450 -17.349 113.294 1.00 51. ATOM 600 CG ARG A 74 36.366 -18.087 114.063 1.00 51. ATOM 601 CD ARG A 74 36.366 -18.087 114.063 1.00 51. ATOM 602 NE ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 603 CZ ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 604 NH1 ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 605 NH2 ARG A 74 35.991 -19.870 112.403 1.00 56. ATOM 606 C ARG A 74 35.991 -19.870 112.403 1.00 56. ATOM 606 C ARG A 74 40.916 -18.429 112.541 1.00 42. ATOM 607 O ARG A 74 40.916 -18.429 112.541 1.00 42. ATOM 608 N SER A 75 39.485 -17.305 111.222 1.00 43. ATOM 608 N SER A 75 39.485 -17.305 111.222 1.00 43. ATOM 610 CB SER A 75 38.425 -18.089 109.113 1.00 42. ATOM 610 CB SER A 75 38.425 -18.089 109.113 1.00 42. ATOM 610 CB SER A 75 38.426 -16.799 108.532 1.00 43. ATOM 610 CB SER A 75 38.426 -16.991 109.132 1.00 43. ATOM 610 CB SER A 75 40.910 -17.797 109.282 1.00 46. ATOM 613 O SER A 75 41.339 -18.522 108.383 1.00 45. ATOM 616 CB GLN A 76 41.466 -16.638 109.618 1.00 45. ATOM 617 CG GLN A 76 42.642 -16.116 108.936 1.00 45. ATOM 618 CD GLN A 76 42.642 -16.116 108.936 1.00 45. ATOM 619 OEI GLN A 76 44.499 -14.557 110.655 1.00 43. ATOM 621 C GLN A 76 44.499 -14.557 110.655 1.00 43. ATOM 622 O SER A 77 40.784 -15.667 100.5649 1.00 43. ATOM 623 N SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 624 CA SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 625 CB SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 626 CD NEZ GLN A 76 42.642 -16.116 109.044 1.00 44. ATOM 626 CD SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 627 C SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 630 CA VAL A 78 39.590 -14.137 104.207 1.00 46. ATOM 631 CB SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 632 CG SER A 77 41.168 -15.713 107.053 1.00 45. ATOM 634 C VAL A 78 39.590 -14.139 100.397 1.00 48. ATOM 635 C BR A 79 34.697 -17.399 104.186 1.00 51.00 51. ATOM 636 C B SER A 79 34.927 -13.998 104.186 1.00 51.00 51.00 51.00 51.00 51.00 51.		596	0	GLU A	73	41.75, 23.83 125.101
ATOM 598 CA ARG A 74 38.548 -16.892 114.216 1.00 43. ATOM 599 CB ARG A 74 38.548 -16.892 114.216 1.00 43. ATOM 601 CD ARG A 74 37.450 -17.349 113.294 1.00 51. ATOM 602 NE ARG A 74 37.450 -17.349 113.294 1.00 51. ATOM 603 CZ ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 603 CZ ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 604 NH1 ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 605 NH2 ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 606 NH2 ARG A 74 37.273 -20.208 112.446 1.00 51. ATOM 607 NH2 ARG A 74 40.125 -17.506 112.372 1.00 43. ATOM 608 N SER A 75 39.465 -17.305 111.222 1.00 43. ATOM 609 CA SER A 75 39.465 -17.305 111.225 1.00 43. ATOM 610 CB SER A 75 38.455 -18.089 109.113 1.00 42. ATOM 610 CB SER A 75 38.455 -18.089 109.113 1.00 42. ATOM 611 CG SER A 75 38.455 -18.089 109.113 1.00 42. ATOM 612 C SER A 75 38.420 -16.799 108.532 1.00 43. ATOM 613 O SER A 75 41.339 -18.522 108.383 1.00 45. ATOM 616 CB GLN A 76 42.664 -16.638 109.618 1.00 45. ATOM 616 CB GLN A 76 42.664 -16.16.638 109.226 1.00 46. ATOM 617 CG GLN A 76 45.162 -16.208 109.045 1.00 47. ATOM 618 CD GLN A 76 44.499 -14.537 110.555 1.00 37. ATOM 620 NE2 GLN A 76 42.664 -16.113 10.8936 1.00 46. ATOM 620 NE2 GLN A 76 42.665 -15.111 10.176 1.00 41. ATOM 621 N SER A 77 41.168 1.5214 110.176 1.00 41. ATOM 622 O GLN A 76 42.669 -15.111 10.591 1.00 45. ATOM 623 N SER A 77 41.168 1.5.671 10.5.691 1.00 43. ATOM 624 CA SER A 77 41.168 1.5.171 10.176 1.00 41. ATOM 627 C SER A 77 41.168 1.5.171 110.591 1.00 45. ATOM 628 O SER A 77 41.168 1.5.171 110.591 1.00 45. ATOM 629 N VAL A 78 38.974 -17.246 105.925 1.00 43. ATOM 630 CA SER A 77 41.168 1.5.171 110.591 1.00 45. ATOM 631 CB VAL A 78 39.590 1.13.398 10.41 10.591 1.00 45. ATOM 632 CB SER A 77 40.784 -15.667 105.649 1.00 44. ATOM 633 CG VAL A 78 38.974 -17.246 105.925 1.00 43. ATOM 636 CB N SER A 77 40.784 -15.667 105.699 1.00 43. ATOM 637 CD SER A 77 40.784 -15.667 105.699 1.00 43. ATOM 640 CB N SER A 77 40.784 -15.667 105.699 1.00 43. ATOM 651 CB N SER A 77 40.784 -15.667 105.699 1.00 43. ATOM 662 C CB SER A 77					74	
ATOM 598 CA ARG A 74 ATOM 600 CG ARG A 74 ATOM 600 CG ARG A 74 ATOM 601 CD ARG A 74 ATOM 601 CD ARG A 74 ATOM 602 NE ARG A 74 ATOM 602 NE ARG A 74 ATOM 603 CZ ARG A 74 ATOM 603 CZ ARG A 74 ATOM 603 CZ ARG A 74 ATOM 604 NH1 ARG A 74 ATOM 605 NH2 ARG A 74 ATOM 606 NH2 ARG A 74 ATOM 606 C ARG A 74 ATOM 606 C ARG A 74 ATOM 607 O ARG A 74 ATOM 608 N SER A 75 ATOM 601 CB SER A 75 ATOM 610 CG SER A 75 ATOM 610 CG SER A 75 ATOM 611 CG SER A 75 ATOM 612 C SER A 75 ATOM 616 C SER A 75 ATOM 616 C SER A 75 ATOM 617 CG GLN A 76 ATOM 618 N SER A 75 ATOM 619 OEI GLN A 76 ATOM 619 CEI GLN A 76 ATOM 621 C SER A 77 ATOM 621 C SER A 77 ATOM 622 C SER A 77 ATOM 633 N SER A 76 ATOM 634 C SER A 76 ATOM 637 C SER A 76 ATOM 638 C SER A 76 ATOM 619 CEI GLN A 76 ATOM 619 CEI GLN A 76 ATOM 621 C SER A 77 ATOM 621 C SER A 77 ATOM 621 C SER A 77 ATOM 622 C SER A 77 ATOM 633 C SER A 76 ATOM 634 C SER A 76 ATOM 635 C SER A 76 ATOM 637 C SER A 76 ATOM 638 C SER A 76 ATOM 639 C SER A 76 ATOM 640 C SER A 76 ATOM 651 C SER A 76 ATOM 652 C SER A 76 ATOM 653 C SER A 76 ATOM 654 C SER A 76 ATOM 655 C SER A 76 ATOM 656 C SER A 76 ATOM 657 C SER A 76 ATOM 658 C SER A 76 ATOM 658 C SER A 77 ATOM 659 C SER A 77 ATOM 650 C						
ATOM 600 CG ARG A 74 37, 450 -17, 349 113, 294 1.00 51. ATOM 601 CD ARG A 74 35, 534 -18.871 113, 158 1.00 57. ATOM 602 NE ARG A 74 35, 534 -18.871 113, 158 1.00 57. ATOM 603 CZ ARG A 74 35, 534 -18.871 113, 158 1.00 57. ATOM 603 CZ ARG A 74 35, 534 -18.871 113, 158 1.00 57. ATOM 604 NN11 ARG A 74 37, 273 -20, 208 112, 446 1.00 51. ATOM 605 NN12 ARG A 74 37, 273 -20, 208 112, 446 1.00 51. ATOM 606 NN12 ARG A 74 40, 125 -17, 506 112, 372 1.00 43. ATOM 607 O ARG A 74 40, 125 -17, 506 112, 372 1.00 43. ATOM 608 N SER A 75 39, 485 -17, 305 111, 222 1.00 43. ATOM 609 CA SER A 75 39, 4670 -18.186 110, 066 1.00 44. ATOM 610 CB SER A 75 38, 485 -18, 089 109, 113 1.00 42. ATOM 610 CB SER A 75 38, 485 -18, 089 109, 113 1.00 42. ATOM 611 CG SER A 75 38, 485 -18, 089 109, 113 1.00 42. ATOM 612 C SER A 75 40, 910 -17, 797 109, 282 1.00 46. ATOM 613 O SER A 75 41, 339 -18.522 108, 383 1.00 45. ATOM 615 CA GLN A 76 42, 642 -16, 116 108, 936 1.00 46. ATOM 616 CB GLN A 76 42, 642 -16, 116 108, 936 1.00 46. ATOM 616 CB GLN A 76 42, 642 -16, 116 108, 936 1.00 46. ATOM 618 CD GLN A 76 45, 415 -15, 214 110, 176 1.00 41. ATOM 620 NE2 GLN A 76 42, 642 -16, 116 108, 936 1.00 45. ATOM 620 NE2 GLN A 76 42, 644 -16, 116 108, 936 1.00 45. ATOM 621 C GLN A 76 42, 644 -16, 116 108, 936 1.00 45. ATOM 620 NE2 GLN A 76 42, 644 -16, 116 108, 936 1.00 43. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 44. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 42. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 42. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 42. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 42. ATOM 620 NE2 GLN A 76 42, 347 -16, 120 107, 429 1.00 42. ATOM 620 NE2 GLN A	ATOM					
ATOM 601 CD ARG A 74	ATOM	599	CB	ARG A		
ATOM 601 CD ARG A 74 36.366 -18.087 114.063 1.00 91. ATOM 602 NE ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 603 CZ ARG A 74 35.534 -18.871 113.158 1.00 57. ATOM 604 NH1 ARG A 74 37.273 -20.208 112.446 1.00 51. ATOM 605 NH2 ARG A 74 40.125 -17.506 112.372 1.00 43. ATOM 606 C ARG A 74 40.125 -17.506 112.372 1.00 43. ATOM 607 O ARG A 74 40.125 -17.506 112.372 1.00 43. ATOM 608 N SER A 75 39.465 -18.429 112.541 1.00 42. ATOM 609 CA SER A 75 39.670 -18.186 110.066 1.00 44. ATOM 610 CB SER A 75 39.670 -18.186 110.066 1.00 44. ATOM 611 CB SER A 75 38.420 -16.799 108.532 1.00 38. ATOM 612 C SER A 75 38.420 -16.799 108.532 1.00 38. ATOM 613 O SER A 75 40.910 -17.797 109.282 1.00 46. ATOM 613 O SER A 75 41.339 -18.522 108.383 1.00 45. ATOM 615 CA GLN A 76 41.466 -16.638 109.618 1.00 46. ATOM 616 CB GLN A 76 42.642 -16.116 108.936 1.00 46. ATOM 617 CG GLN A 76 45.162 -16.208 109.045 1.00 43. ATOM 618 CD GLN A 76 45.162 -16.208 109.045 1.00 43. ATOM 619 OEI GLN A 76 45.162 -16.208 109.045 1.00 43. ATOM 620 NEZ GLN A 76 42.374 1.10.176 1.00 41. ATOM 621 C GLN A 76 44.499 -14.537 110.655 1.00 37. ATOM 620 NEZ GLN A 76 42.334 1.10.176 1.00 41. ATOM 621 C GLN A 76 42.334 1.10.176 1.00 41. ATOM 622 O GLN A 76 42.374 1.00.10.555 1.00 37. ATOM 623 N SER A 77 40.182 -17.004 105.220 1.00 44. ATOM 624 CA SER A 77 40.182 -17.004 105.220 1.00 44. ATOM 625 CB SER A 77 39.747 -14.537 110.655 1.00 43. ATOM 626 OG SER A 77 39.747 -14.537 100.655 1.00 43. ATOM 630 CA VAL A 78 39.596 1-14.142 106.335 1.00 45. ATOM 631 CB VAL A 78 39.596 1-14.142 106.335 1.00 45. ATOM 632 CG VAL A 78 39.096 1-14.142 106.335 1.00 45. ATOM 630 CA VAL A 78 39.096 1-14.142 106.335 1.00 44. ATOM 631 CB VAL A 78 39.096 1-14.142 106.335 1.00 44. ATOM 632 CG VAL A 78 39.096 1-14.142 106.335 1.00 43. ATOM 633 CG VAL A 78 39.096 1-14.142 106.335 1.00 43. ATOM 634 C VAL A 78 39.096 1-14.142 106.335 1.00 43. ATOM 636 CG VAL A 78 39.096 1-14.142 106.335 1.00 43. ATOM 646 CG LYS A 80 31.632 -13.995 103.100 1.00 53. ATOM 651 C DEN A 79 34.997 1.10.349 10.00 53. ATOM 664	LTOM	600	CG	ARG A	74	2 · · · · · · · · · · · · · · · · · · ·
ATOM 602 NE ARG A 74					74	
ATOM 602 R2 ARG A 74					_	
ATOM 604 NH1 ARG A 74 37.273 = 20.208 112.446 1.00 51. ATOM 605 NH2 ARG A 74 35.172 = 20.517 111.586 1.20 51. ATOM 606 C ARG A 74 40.125 = 17.506 112.372 1.00 43. ATOM 607 O ARG A 74 40.125 = 17.506 112.372 1.00 43. ATOM 607 O ARG A 74 40.916 = 18.429 112.541 1.00 42. ATOM 608 N SER A 75 39.485 = 17.305 111.222 1.00 43. ATOM 610 CB SER A 75 39.670 = 18.186 110.066 1.00 44. ATOM 610 CB SER A 75 38.485 = 18.809 109.113 1.00 42. ATOM 611 OG SER A 75 38.420 = 16.799 108.532 1.00 38. ATOM 612 C SER A 75 40.910 = 17.797 109.282 1.00 45. ATOM 613 O SER A 75 41.339 = 18.522 108.383 1.00 45. ATOM 614 N GLN A 76 41.466 = 16.638 109.618 1.00 46. ATOM 615 CA GLN A 76 42.642 = 16.116 108.936 1.00 46. ATOM 616 CB GLN A 76 42.642 = 16.116 108.936 1.00 45. ATOM 618 CD GLN A 76 42.642 = 16.116 108.936 1.00 45. ATOM 618 CD GLN A 76 45.162 = 16.208 109.045 1.00 37. ATOM 619 OE1 GLN A 76 45.415 = 15.214 110.176 1.00 41. ATOM 620 NE2 GLN A 76 44.499 = 14.577 110.655 1.00 47. ATOM 621 C GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 43.233 = 16.495 106.630 1.00 40. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 622 O GLN A 76 42.374 = 16.120 107.429 1.00 45. ATOM 628 O SER A 77 40.182 = 17.004 105.220 1.00 44. ATOM 629 N VAL A 78 39.9590 = 14.131 100.591 1.00 45. ATOM 629 N VAL A 78 39.9590 = 14.131 100.595 1.00 45. ATOM 629 N VAL A 78 39.9590 = 14.133 104.207 1.00 45. ATOM 630 C CNAL A 78 39.9590 = 14.133 104.207 1.00 45. ATOM 640 C C PRO A 79 34.927 = 13.998 104.186 1.00 51. ATOM 640 C C PRO A 79 34.927 = 13.998 104.186 1.00 51. ATOM 640	MOTA					
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ATOM 605 NH2 ARG A 74		604	NH1	ARG A	74	37.273 20.200 222111
ATOM 606 C ARG A 74 40.125 = 17.506 112.372 1.00 43. ATOM 607 O ARG A 74 40.916 = 18.429 112.541 1.00 43. ATOM 608 N SER A 75 39.485 = 17.305 111.222 1.00 43. ATOM 609 CA SER A 75 39.485 = 17.305 111.222 1.00 43. ATOM 610 CB SER A 75 38.485 = 18.089 109.113 1.00 42. ATOM 611 OG SER A 75 38.485 = 18.089 109.113 1.00 42. ATOM 612 C SER A 75 40.910 = 17.797 109.282 1.00 46. ATOM 613 O SER A 75 40.910 = 17.797 109.282 1.00 46. ATOM 613 O SER A 75 41.339 = 18.522 108.383 1.00 45. ATOM 614 N GIN A 76 41.466 = 16.638 109.618 1.00 44. ATOM 615 CA GLN A 76 42.642 = 16.116 108.936 1.00 44. ATOM 616 CB GLN A 76 45.162 = 16.208 109.045 1.00 43. ATOM 617 CG GLN A 76 45.162 = 16.208 109.045 1.00 43. ATOM 618 CD GLN A 76 45.162 = 16.208 109.045 1.00 43. ATOM 619 OEI GLN A 76 44.499 = 14.537 110.655 1.00 37. ATOM 620 NE2 GLN A 76 45.162 = 16.208 109.045 1.00 43. ATOM 621 C GLN A 76 46.669 = 15.111 110.591 1.00 45. ATOM 622 C GLN A 76 43.233 = 16.495 106.630 1.00 40. ATOM 623 N SER A 77 40.784 = 15.667 105.649 1.00 44. ATOM 624 CA SER A 77 40.784 = 15.667 105.649 1.00 44. ATOM 625 CB SER A 77 39.747 = 14.573 107.429 1.00 45. ATOM 626 OS SER A 77 39.747 = 14.573 105.649 1.00 44. ATOM 627 C SER A 77 39.747 = 14.573 105.649 1.00 44. ATOM 628 O SER A 77 39.747 = 14.573 105.649 1.00 44. ATOM 629 N VAL A 78 39.590 = 14.137 104.207 1.00 45. ATOM 630 CA VAL A 78 39.590 = 14.137 104.207 1.00 45. ATOM 631 CB VAL A 78 39.590 = 14.137 104.207 1.00 45. ATOM 632 C O GLN A 78 37.77 = 13.682 103.530 1.00 48. ATOM 633 CCG UVAL A 78 39.107 = 12.245 102.701 1.00 45. ATOM 634 C VAL A 78 39.107 = 12.245 102.001 1.00 45. ATOM 635 O VAL A 78 39.107 = 12.245 102.701 1.00 53. ATOM 636 C O PRO A 79 36.347 = 12.245 102.701 1.00 53. ATOM 637 CD PRO A 79 36.347 = 12.245 102.701 1.00 53. ATOM 640 CB PRO A 79 34.170 = 13.492 104.407 1.00 45. ATOM 650 C LYS A 80 32.338 = 12.607 100.874 1.00 54. ATOM 651 C LYS A 80 32.338 = 12.607 100.874 1.00 55. ATOM 652 C LYS A 80 32.338 = 12.607 100.874 1.00 55. ATOM 654 C B LYS A 80 32.338 = 12.607 100.877 1.00 4. ATOM 65				ARG A	74	
ATOM 607 O ARG A 74 40.916 -18.429 112.541 1.00 42. ATOM 608 N SER A 75 39.670 -18.186 110.066 1.00 44. ATOM 609 CA SER A 75 39.670 -18.186 110.066 1.00 44. ATOM 610 CB SER A 75 38.485 -18.089 109.113 1.00 42. ATOM 611 OG SER A 75 38.4820 -16.799 108.532 1.00 46. ATOM 612 C SER A 75 40.910 -17.797 109.282 1.00 46. ATOM 613 O SER A 75 41.339 -18.522 108.383 1.00 46. ATOM 613 O SER A 75 41.339 -18.522 108.383 1.00 46. ATOM 614 N GEN A 76 41.466 -16.638 109.618 1.00 46. ATOM 615 CA GLN A 76 42.642 -16.116 108.936 1.00 44. ATOM 616 CB GEN A 76 43.868 -16.973 109.226 1.00 37. ATOM 617 CG GLN A 76 45.162 -16.208 109.045 1.00 43. ATOM 618 CD GLN A 76 45.162 -16.208 109.045 1.00 43. ATOM 619 OEI GLN A 76 44.499 -14.537 110.655 1.00 37. ATOM 620 NE2 GLN A 76 46.669 -15.11 110.591 1.00 43. ATOM 621 C GLN A 76 42.374 -16.120 107.429 1.00 44. ATOM 622 O GLN A 76 43.233 -16.495 106.630 1.00 44. ATOM 623 N SER A 77 40.784 -15.667 105.649 1.00 44. ATOM 624 CA SER A 77 40.784 -15.667 105.649 1.00 44. ATOM 625 OG SER A 77 39.747 -14.573 107.053 1.00 40. ATOM 626 OG SER A 77 39.747 -14.1573 105.220 1.00 44. ATOM 627 C SER A 77 39.747 -14.1573 105.220 1.00 44. ATOM 628 O SER A 77 39.747 -14.1573 105.220 1.00 45. ATOM 629 N VAL A 78 39.590 -14.137 104.207 1.00 45. ATOM 630 C X VAL A 78 39.590 -14.137 104.207 1.00 45. ATOM 631 CB VAL A 78 39.590 -14.137 104.207 1.00 45. ATOM 635 C VAL A 78 39.107 -12.245 102.701 1.00 49. ATOM 636 CG VAL A 78 39.107 -12.245 102.701 1.00 49. ATOM 637 CD PRO A 79 34.470 -13.450 105.396 1.00 53. ATOM 638 C PRO A 79 34.470 -12.428 102.301 1.00 53. ATOM 639 C PRO A 79 34.470 -12.428 102.301 1.00 53. ATOM 630 C VAL A 78 39.107 -12.245 102.701 1.00 53. ATOM 631 CB VAL A 78 39.107 -12.245 102.701 1.00 53. ATOM 636 C PRO A 79 34.470 -13.450 105.396 1.00 53. ATOM 637 CD PRO A 79 34.470 -13.450 105.396 1.00 53. ATOM 640 CG PRO A 79 34.470 -13.450 105.396 1.00 53. ATOM 650 C LYS A 80 32.338 -12.607 100.874 1.00 55. ATOM 651 C LYS A 80 32.338 -12.607 100.874 1.00 55. ATOM 655 C GLYS A 80 32.338 -12.607 100.074 1						
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	ATOM					33.033
		660) 0	ALA A	82	33.132 -0.323 102.002 2:30 00:30

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ATOM	661	N	ARG A	83	35.874	-8.549 101.289	1.00 43.30
MOTA	662	CA	ARG A	83	36.959	-7.742 100.741	1.00 43.25
ATOM	663	CB	ARG A	83	37.715	-8.533 99.677	1.00 46.60
ATOM	664	CG	ARG A	83	38.988	-7.865 99.222	1.00 51.32
ATOM	665	CD	ARG A	83	39.636	-8.632 98.086	1.00 55.55
ATOM	666	NE	ARG A	83	40.995	-8.164 97.810	1.00 64.08
ATOM	667	CZ	ARG A	83	41.330	-6.905 97.540	1.00 63.01
ATOM	668	NH1	ARG A	83	40.403	-5.954 97.504	1.00 62.76
MOTA	669	NH2	ARG A	83	42.599	-6.600 97.304	1.00 59.66
	670	C	ARG A	83	36.453	-6.435 100.134	1.00 44.58
ATOM	671	0	ARG A	83	37.002	-5.365 100.395	1.00 38.05
MOTA		N	GLU A	84	35.404	-6.528 99.323	1.00 41.82
ATOM	672		GLU A	84	34.824	-5.356 98.678	1.00 41.44
ATOM	673	CA		84	34.145	-5.765 97.367	1.00 46.27
MOTA	674	CB	GLU A	84	33.621	-7.185 97.388	1.00 52.61
ATOM	675	CG	GLU A GLU A	84	34.749	-8.198 97.308	1.00 54.12
MOTA	676	CD		84	34.555	-9.344 97.764	1.00 59.66
MOTA	677	OE1	GLU A GLU A	84	35.823	-7.850 96.769	1.00 50.30
MOTA	678	OE2		84	33.831	-4.595 99.545	1.00 37.36
MOTA	679	C	GLU A		33.692	-3.379 99.416	1.00 34.30
ATOM	680	0	GLU A	84	33.138	-5.301 100.427	1.00 36.00
MOTA	681	N	LYS A	85	32.154	-4.646 101.280	1.00 36.95
MOTA	682	CA	LYS A	85 05	31.089	-5.649 101.725	1.00 36.60
MOTA	683	CB	LYS A	85	29.975	-5.042 102.570	1.00 40.72
ATOM	684	CG	LYS A	85	28.939	-6.092 102.963	1.00 46.21
ATOM	685	CD	LYS A	85	27.839	-5.487 103.827	1.00 49.06
ATOM	686	CE	LYS A	85	26.859	-6.513 104.287	1.00 52.72
MOTA	687	NZ	LYS A	85	32.785	-4.008 102.513	1.00 36.48
ATOM	688	C	LYS A	85	32.763	-2.949 102.966	1.00 30.40
ATOM	689	0	LYS A	85	33.819	-4.649 103.041	1.00 33.69
ATOM	690	N	TYR A	86	34.468	-4.169 104.250	1.00 35.23
ATOM	691	CA	TYR A	86	34.410	-5.281 105.300	1.00 33.65
ATOM	692	CB	TYR A	86	32.990	-5.665 105.680	1.00 35.09
MOTA	693	CG	TYR A	86	. 32.165	-4.·765 106.351	1.00 34.06
ATOM	694	CD1		86	30.866	-5.100 106.704	1.00 34.32
MOTA	695	CE1		86	32.470	-6.923 105.365	1.00 33.17
MOTA	696	CD2		. 86	31.162	-7.271 105.716	1.00 33.91
ATOM	697	CE2		86	30.369	-6.350 106.386	1.00 34.21
MOTA	698	CZ	TYR A	86	29.079	-6.658 106.738	1.00 35.20
MOTA	699	OH	TYR A	86	35.901	-3.672 104.046	1.00 36.09
ATOM	700	C	TYR A	86	36.552	-3.208 104.984	1.00 36.06
ATOM	701	0	TYR A	86 97	36.382	-3.777 102.814	1.00 36.46
ATOM	702	N	ASN A	87 87	37.712	-3.313 102.441	1.00 32.71
ATOM	703	CA	ASN A		37.768	-1.791 102.576	1.00 36.26
MOTA	704	CB	ASN A	87 87	38.989	-1.199 101.926	1.00 37.25
ATOM	705	CG	ASN A	87	39.305	-1.518 100.784	1.00 36.29
MOTA	706	OD1		87	39.675	-0.320 102.640	1.00 45.25
ATOM	707		ASN A	87	38.855	-3.956 103.217	1.00 34.73
MOTA	708	C	ASN A	87	39.868	-3.315 103.512	1.00 33.23
ATOM	709	0	ASN A		38.687	-5.237 103.523	1.00 32.48
ATOM	710	N	ILE A	88	39.676	-6.018 104.248	1.00 33.65
ATOM	711	CA	ILE A	88	39.030	-6.732 105.445	1.00 38.66
MOTA	712	CB	ILE A	88	40.021	-7.680 106.081	1.00 41.31
MOTA	713	CG2		88	38.536	-5.707 106.461	1.00 40.45
ATOM	714	CG1		88	39.641	-4.953 107.124	1.00 42.25
MOTA	715	CD1		88		-7.090 103.318	1.00 37.36
ATOM	716	C	ILE A	88	40.251	-7.587 102.431	1.00 35.47
MOTA	717	0	ILE A	88	39.555 41.517	-7.446 103.520	1.00 31.52
MOTA	718	N	GLY A	89		-8.477 102.698	1.00 33.53
MOTA	719	CA	GLY A	89	42.124	-8.477 102.636 -7.994 101.675	1.00 34.50
MOTA	720	С	GLY A	89	43.134	-7.994 101.875 -8.777 101.186	1.00 32.81
ATOM	721	0	GLY A	89	43.951	-6.710 101.335	1.00 31.39
MOTA	722	N	GLY A	90	43.071	-6.710 101.333 -6.158 100.371	1.00 23.90
MOTA	723	CA	GLY A	90	44.005	-5.893 101.040	1.00 28.78
ATOM	724	C	GLY A	90	45.340	-6.339 102.163	1.00 28.78
MOTA	725	0	GLY A	90	45.563		1.00 28.26
MOTA	726	N	TYR A	91	46.221	-5.155 100.367	1.00 20.20

-4.850 100.918 1.00 27.34 47.539 91 TYR A 727 CA ATOM 1.00 22.62 48.477 -4.36599.805 91 TYR A аЭ ATOM 728 99.194 1.00 24.28 48.066 -3.03991 TYR A 729 CG MOTA 99.822 1.00 21.55 -1.82948.374 91 TYR A 730 CD1 MOTA 1.00 24.69 -0.609 99.275 47.970 91 731 CEl TYR A MOTA 1.00 24.86 47.341 -2.997 98.002 91 TYR A MOTA 732 CD2 1.00 29.92 97.447 46.931 -1.786 CE2 TYR A 91 73,3 MOTA 1.00 29.04 -0.597 98.086 47.250 91 734 CZ TYR A MOTA 1.00 29.51 97.516 0.593 91 46.861 TYR A 735 OH MOTA -3.777 101.998 1.00 27.52 47.452 TYR A 91 С ATOM 736 1.00 27.20 -3.689 102.869 48.314 91 TYR A 737 0 MOTA 1.00 26.75 -2.971 101.938 46.402 92 GLU A ATOM 738 N 1.00 28.38 46.232 -1.879 102.882 92 GLU A 739 CA MOTA -0.881 102.310 1.00 28.57 45.234 GLU A 92 740 CB MOTA 1.00 36.94 0.471 102.982 45.232 92 741 CG GLU A ATOM 1.00 37.40 1.395 102.396 44.178 92 GLU A 742 CD ATOM 1.293 102.794 1.00 31.22 42.999 92 OE1 GLU A 743 MOTA 1.00 40.54 2.209 101.516 44.527 92 OE2 GLU A 744 ATOM 1.00 29.20 -2.343 104.259 45.770 92 GLU A 745 С MOTA 1.00 21.86 -2.015 105.268 46.389 92 GLU A 746 0 MOTA 1.00 26.51 -3.117 104.286 44.687 ASN A 93 Ŋ 747 MOTA 1.00 24.02 -3.613 105.527 44.109 748 CA ASN A 93 ATOM -2.988 105.690 1.00 24.51 42.727 93 ASN A ATOM 749 CE 1.00 28.61 -1.488 105.405 42.738 93 CG ASN A 750 MOTA 1.00 25.30 -0.727 106.079 43.428 93 OD1 ASN A 751 ATOM 1.00 20.45 -1.063 104.393 41.987 ND2 ASN A 93 752 ATOM 1.00 24.79 -5.132 105.407 43.999 93 ASN A 753 С ATOM -5.680 105.291 1.00 21.89 42.905 93 ASN A 754 0 MOTA 1.00 24.60 -5.828 105.429 45.142 94 755 N PRO A MOTA 1.00 22.93 -5.246 105.540 46.493 94 756 CD PRO A MOTA 1.00 27.23 -7.285 105.312 45.241 94 PRO A 757 CA MOTA 1.00 25.46 46.730 -7.488 105.093 94 PRO A CB MOTA 758 -6.431 106.046 1.00 26.20 47.299 94 759 CG PRO A ATCM 1.00 31.04 -8.112 106.489 44.743 94 760 PRO A ATOM 1.00 29.10 -7.589 107.558 44.411 PRO A 94 761 С MOTA -9.422 106.266 1.00 28.27 95 44.696 VAL A 762 N MOTA 1.00 28.82 44.299 -10.367 107.291 VAL A 95 CA 763 MOTA 43.938 -11.737 106.677 1.00 30.75 VAL A 95 764 CЭ MOTA 1.00 33.60 43.745 -12.766 107.776 95 CG1 VAL A 765 MOTA 1.00 24.87 42.679 -11.611 105.849 VAL A 95 CG2 766 **ATOM** 1.00 29.98 45.503 -10.549 108.204 95 VAL A 767 C MOTA 1.00 31.36 46.637 -10.649 107.729 95 VAL A 768 0 ATOM 45.264 -10.572 109.510 1.00 29.38 96 SER A 17 769 MOTA 1.00 32.56 46.335 -10.766 110.485 96 770 CA SER A 1.00 34.15 MOTA -9.600 110.454 47.325 96 SER A 771 CB ATOM -8.448 111.051 1.00 28.33 46 758 SER A 96 CG 772 ATOM 1.00 32.10 45.681 -10.804 111.854 96 SER A 773 C ATOM 1.00 37.91 44 458 -10.839 111.950 SER A 96 774 0 ATOM 46.484 -10.795 112.913 1.00 32.57 97 775 N . TYR A ATOM 1.00 34.95 45.914 -10.801 114.248 97 TYR A 776 CA ATOM 1.00 35.47 46.685 -11.735 115.182° 777 97 CE TYR A MOTA 46.492 -13.187 114.817 1.00 40.65 97 TYR A 778 CG MCTA 47.319 -13.812 113.882 1.00 40.63 97 TYR A 779 CD1 ATOM 47.083 -15.121 113.475 1.00 42.16 97 TYR A 780 CEl ATOM 1.00 38.82 45.421 -13.910 115.338 97 TYR A 781 CD2 ATOM 1.00 42.82 45.175 -15.219 114.936 97 CEE TYR A 782 ATOM 46.010 -15.816 114.005 1.00 42.56 CC TYR A 97 783 MOTA 1.00 46.03 45.772 -17.105 113.601 97 TYR A 784 СЖ 1.00 37.56 ATOM -9.394 114.813 45.862 97 TYR A 785 С 1.00 39.06 MOTA 45.601 -9.195 115.998 97 TYR A 786 ೦ 1.00 31.96 ATCM -8.418 113.948 46.115 98 ALA A 787 N 1.00 30.43 ATCM 46.048 -7.024 114.341 98 CA ALA A 788 -6.211 113.600 1.00 29.64 ATOM 47.105 98 ALA A 789 CB ATOM 1.00 30.35 -6.533 113.962 44.658 98 ALA A 790 С 1.00 31.82 LTCM -5.655 114.612 44.099 ALA A 98 0 791 -7.130 112.915 ATCM 1.00 30.40 44.094 99 792 MET A N ATOM

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								* 00 27 54
ATOM	793	CA	MET A 99		42.788		112.420	1.00 27.54
			MET A 99		42.370	-7.620	111.238	1.00 30.55
ATOM	794						111.565	1.00 31.59
ATOM	795	CG	MET A 99		42.052			
ATOM	796	SD	MET A 99		41.902 -			1.00 30.13
	797		MET A 99		40.770	-9.086	109.085	1.00 28.02
MOTA					41.703		113.490	1.00 28.02
ATOM -	798	С	MET A 99			-6.030	113.430	1.00 24.53
ATOM	799	0	MET A 99		40.818		113.446	
MOTA	800	N	PHE A 100		41.752	-7.614	114.449	1.00 26.07
			PHE A 100		40.759	-7.583	115.516	1.00 30.47
ATOM	801	CA					115.404	1.00 30.29
MOTA	802	CB	-PHE A 100		39.738			
MOTA	803	CG	PHE A 100		38.693		116.475	1.00 29.35
	804	CD1	PHE A. 100		37.722	-7.662	116.455	1.00 27.01
MOTA			PHE A 100	-	38.756	-9.506	117.575-	1.00 30.68
MOTA	805	CD2					117.519	1.00 31.41
MOTA	806	CE1	PHE A 100		36.834			1.00 28.39
MOTA	807	CE2	PHE A 100		37.873		118.644	
ATOM	808	CZ	PHE A 100		36.913	-8.355	118.618	1.00 24.06
		c	PHE A 100		41.345	-7.616	116.922	1.00 29.67
MOTA	809				41.028		117.740	1.00 29.67
ATOM	810	0	PHE A 100					1.00 31.30
ATOM	811	N	THR A 101		42.181		117.222	
ATOM	812	CA	THR A 101		42.770		118.562	1.00 31.37
		CB	THR A 101		43.610	-9.977	118.732	1.00 31.63
ATOM	813				42 777	_11 119	118.532	1.00 31.64
MOTA	814	OG1	THR A 101			-11.115	120.332	1.00 27.38
ATOM	815	CG2	THR A 101				120.137	
MOTA	816	С	THR A 101		43.647	-7.493	118.884	1.00 31.66
	817	ō	THR A 101		43.502	-6.875	119.942	1.00 30.71
ATOM					44.562	-7 166	117.976	1.00 27.40
MOTA	818	N	GLY A 102				118.193	1.00 27.19
ATOM	819	CA	GLY A 102		45.430			
ATOM	820	С	GLY A 102		44.631	-4.728	118.266	1.00 27.26
	821	ō	GLY A 102		44.785	-3.940	119.201	1.00 27.68
MOTA			SER A 103		43.767	-4.515	117.279	1.00 30.52
MOTA	822	N			42.941	-3.314		1.00 31.91
MOTA	823	CA	SER A 103					1.00 34.63
MOTA	824	CB	SER A 103		42.085	-3.334		
ATOM	825	OG	SER A 103		42.896		114.791	1.00 35.94
	826	c	SER A 103		42.046	-3.163	118.441	1.00 32.44
MOTA					41.891		118.984	1.00 25.78
MOTA	827	0	SER A 103			4 270	118.871	1.00 30.47
ATOM	828	N	SER A 104		41.455	-4.270	7 20 071	1.00 30.22
MOTA	829	CA	SER A 104		40.584		120.038	
ATOM	830	CB	SER A 104		39.978	-5.633	120.265	1.00 23.88
		OG	SER A 104		39.078	-5.595	121.358	1.00 36.91
ATOM	831				41.367		121.282	1.00 28.13
ATOM	832	С	SER A 104			3.092	3 122.130	1.00 25.16
ATOM	833	О	SER A 104		40.872	-3.096	122.130	
MOTA	834	N	LEU A 105		42.594	-4.336	121.386	1.00 29.39
	835	CA	LEU A 105		43.445	-4.034	122.530	1.00 29.52
ATOM			LEU A 105		44.684	-4.922	2 122.471	1.00 32.90
ATOM	836	CB			45.461	-5 176	5 123.754	1.00 40.34
ATOM	837	CG	LEU A 105			-3.17	124 020	1.00 35.95
MOTA	838	CD1	LEU A 105		44.520		3 124.828	
ATOM	839	CD2	LEU A 105		46.582	-6.178	3 123.462	1.00 40.23
	840	C	LEU A 105		43.834	-2.55	2 122.511	1.00 32.09
MOTA					43.896		4 123.554	1.00 30.38
ATOM	841	0	LEU A 105				9 121.314	1.00 30.26
ATOM	842	N	ALA A 106		44.081	-2.02	. 121.314	1.00 28.31
MOTA	843	CA	ALA A 106		44.448		6 121.151	
	844	CB	ALA A 106		44.958	-0.38	6 119.738	1.00 23.88
MOTA					43.243	_	8 121.434	1.00 26.04
MOTA	845	C	ALA A 106				6 121.952	1.00 20.63
MOTA	846	0	ALA A 106		43.380	_		
ATOM	847	N	THR A 107		42.058			
ATOM	S48	CA	THR A 107		40.841	0.54	2 121.322	
		CB	THR A 107		39.706		7 120.443	1.00 26.50
ATOM	349				40.111			
ATOM	850	OG:						
MOTA	851	CG:			38.439			
ATOM	352	С	THR A 107		40.450			
	353	ō	THR A 107		40.039	1.51		1.00 29.04
ATOM			GLY A 108		40.585			1.00 24.01
MOTA	854		GDI W 100		40.256		7 124.832	
ATOM	855		GLY A 108				5 125.603	
ATOM	856	C	GLY A 108		41.181		J 125 ETS	
ATOM	857		GLY A 108		40.771	0.79	0 126.572	1.00 20.9/
	858		SER A 109		42.434	0.23	6 125.158	1.00 23.07
ATCM	3.70	• •	22					

ATOM	859 CA SER A 109	43.421 1.090 125.807 1.00 20.96
ATOM	860 CB SER A 109	44.795 0.910 125.160 1.00 24.84 45.294 -0.393 125.402 1.00 25.84
ATOM	861 OG SER A 109	45.25
ATOM	862 C SER A 109	43.008 2.552 125.759 1.00 21.13 43.323 3.312 126.672 1.00 23.17
ATOM	863 O SER A 109	43.323
ATOM	864 N THR A 110	12.322
ATOM	865 CA THR A 110	11.012
ATOM	866 CB THR A 110	41.332 4.648 123.161 1.00 24.33 42.452 4.769 122.276 1.00 25.38
ATOM	867 OG1 THR A 110	1 00 01 10
ATOM	868 CG2 THR A 110	40.545
ATOM	869 C THR A 110	40.725
ATOM	870 O THR A 110	40.002
ATOM	871 N VAL A 111	55.002
MOTA	872 CA VAL A 111	50.011
MOTA	873 CB VAL A 111	37.820 2.519 126.742 1.00 29.94 36.737 2.693 127.802 1.00 27.07
MOTA	874 CG1 VAL A 111	37.193 2.431 125.355 1.00 25.26
ATOM	875 CG2 VAL A 111	39.440 3.797 128.187 1.00 28.10
ATOM	876 C VAL A 111	38 968 4 539 129.039 1.00 26.06
MOTA	877 O VAL A 111 878 N GLN A 112	40 521 3.056 128,415 1.00 23.92
MOTA		41.188 3.097 129.711 1.00 30.27
MOTA	879 CA GLN A 112 880 CB GLN A 112	42.268 2.020 129.804 1.00 28.61
ATOM	881 CG GLN A 112	41,777 0.629 129.481 1.00 28.90
ATOM ATOM	882 CD GLN A 112	42.883 -0.397 129.564 1.00 28.60
ATOM	883 OE1 GLN A 112	43.344 -0.740 130.653 1.00 29.68
ATOM	884 NE2 GLN A 112	43.333 -0.880 128.409 1.00 22.13
MOTA	885 C GLN A 112	41.834 4.461 129.931 1.00 29.99 41.791 5.006 131.035 1.00 28.43
ATOM	886 O GLN A 112	41.751
MOTA	887 N ALA A 113	42.433
MOTA	888 CA ALA A 113	45.005
MOTA	889 CB ALA A 113	43.033
MOTA	890 C ALA A 113	42.005 7.307 129.407 1.00 24.63 42.232 8.183 130.240 1.00 26.38
MOTA	891 O ALA A 113	40.824 7.163 128.822 1.00 25.26
MOTA	892 N ILE A 114	39 728 8.063 129.145 1.00 27.05
MOTA	893 CA ILE A 114 894 CB ILE A 114	38 554 7 887 128.156 1.00 26.93
ATOM		37.387 8.770 128.576 1.00 25.86
MOTA	895 CG2 ILE A 114 896 CG1 ILE A 114	39.008 8.259 126.739 1.00 28.38
MOTA	897 CD1 ILE A 114	37.938 8.105 125.669 1.00 28.64
atom atom	898 C ILE A 114	39.239 7.823 130.578 1.00 31.36
MOTA	899 O ILE A 114	38.898 8.770 131.291 1.00 24.56 39.210 6.563 131.005 1.00 31.17
ATOM	900 N GLU A 115	33.210
ATOM	901 CA GLU A 115	30.730
ATOM	902 CB GLU A 115	30.,23
ATOM	903 CG GLU A 115	37,304
ATOM	904 CD GLU A 115	37.875 2.459 131.912 1.00 34.12 38.910 1.910 132.345 1.00 30.36
MOTA	905 OE1 GLU A 115	36.826 1.827 131.699 1.00 31.38
ATOM	906 OE2 GLU A 115	39 675 6 932 133.357 1.00 31.65
ATOM	907 C GLU A 115 908 O GLU A 115	39.224 7.446 134.383 1.00 29.25
ATOM		40.970 6.933 133.053 1.00 31.50
ATOM	909 N GLU A 116 910 CA GLU A 116	41.942 7.564 133.934 1.00 32.34
ATOM	911 CB GLU A 116	43.367 7.285 133.457 1.00 33.29
ATOM ATOM	.912 CG GLU A 116	43.805 5.842 133.633 1.00 32.29
ATOM	913 CD GLU A 116	43.701 5.378 135.079 1.00 36.87 44.329 6.003 135.961 1.00 34.07
ATOM	914 OE1 GLU A 116	44.525
ATOM	915 OE2 GLU A 116	42.333
ATOM	916 C GLU A 116	41.702
ATOM	917 O GLU A 116	41.003
ATOM	918 N PHE A 117	31.31
ATOM	919 CA PHE A 117	10 593 11 509 131.444 1.00 30.14
ATOM	920 CB PHE A 117	40 044 12 908 131.381 1.00 35.78
ATOM	921 CG PHE A 117	40 882 14 006 131.501 1.00 33.39
ATOM	922 CD1 PHE A 117	38.675 13.123 131.225 1.00 38.90
ATOM	923 CD2 PHE A 117 924 CE1 PHE A 117	40.372 15.299 131.466 1.00 30.65
ATOM	924 CE1 PHE A 117	

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MOTA	925	CE2	PHE A	117	38.153		131.190	1.00 36.50
ATOM	926	CZ	PHE A	117	39.003	15.501	131.310	1.00 35.41
ATOM	927	С	PHE A	117	39.908	11.401	133.811	1.00 32.78
ATOM	928	Ö	PHE A		39.966	12.377	134.566	1.00 29.82
MOTA	929	N	LEU A		38.874	10.568	133.771	1.00 28.61
					37.720	10.751	134.632	1.00 32.00
MOTA	930	CA	LEU A					1.00 32.00
MOTA	931	CB	LEU A		36.621		134.263	
MOTA	932	CG	LEU A		36.098	9.830	132.820	1.00 34.47
ATOM	933	CD1	LEU A ·	118	34.962		132.622	1.00 32.69
ATOM	934	CD2	LEU A	118	35.612		132.522	1.00 32.24
MOTA	935	С	LEU A	118	38.123	10.590	136.094	1.00 31.17
MOTA	936	0	LEU A	118	37.576	11.260	136.964	1.00 28.32
ATOM	937	N	LYS A	119	39.083	9.707	136.363	1.00 27.23
ATOM	938	CA	LYS A		39.531	9.497	137.733	1.00 30.95
ATOM	939	CB	LYS A		40.203	8.130	137.884	1.00 26.35
ATOM	940	CG	LYS A		39.293		137.540	1.00 32.44
	941	CD	LYS A		39.895	5.624	137.986	1.00 33.31
ATOM	942	CE	LYS A		41.280	5.385	137.411	1.00 33.47
MOTA	943	NZ	LYS A		41.874	4.102	137.904	1.00 33.40
MOTA			LYS A		40.493	10.594	138.173	1.00 32.65
MOTA	944	C			41.050	10.548	139.270	1.00 32.03
MOTA	945	0	LYS A				137.308	1.00 28.83
MOTA	946	N	GLY A		40.689	11.583		
MOTA	947	CA	GLY A		41.571	12.677	137.652	1.00 33.84
ATOM	948	С		120	43.035	12.448	137.340	1.00 34.27
ATOM	949	0	GLY A		43.880	13.227	137.776	1.00 36.80
MOTA	950	N	ASN A		43.347	11.384	136.606	1.00 30.77
ATOM	951	CA	ASN A	121	44.731	11.122	136.244	1.00 31.73
MOTA	952	CB	ASN A	121	45.089	9.646		1.00 29.34
MOTA	953	CG	ASN A	121	44.856	9.170	137.851	1.00 35.83
ATOM	954	OD1	ASN A	121	45.190	9.861		1.00 32.74
ATOM	955	ND2	ASN A		44.304	7.970	137.986	1.00 33.20
ATOM	956	С	ASN A		44.954	11.506	134.790	1.00 32.59
ATOM	957	ō	ASN A		44.031	11.952	134.110	1.00 34.69
ATOM	958	N	VAL A		46.186	11:334	134.322	1.00 32.74
ATOM	959	CA	VAL A		46.540	11.653	132.946	1.00 33,59
ATOM	960	CB	VAL A		47.571	12.790		1.00 36.05
	961	CG1	VAL A		47.884	13.121	131.438	1.00 37.58
ATOM	962	CG2	VAL A		47.029	14.021		1.00 37.19
MOTA	963		VAL A		47.147	10.397		1.00 34.47
ATOM	964	С 0	VAL A		48.053	9.801		1.00 31.28
MOTA			ALA A		46.646	9.989		1.00 28.06
MOTA	965	N			47.142	8.784		1.00 30.73
ATOM	966	CA	ALA A				130.727	1.00 32.69
ATOM	967	CB	ALA A		46.133	8.969		1.00 30.55
MOTA	968	C	ALA A		47.466	9.830		1.00 30.33
MOTA	969	0	ALA A		46.909			1.00 32.83
MOTA	970	N		124	48.380	8.136		1.00 27.55
ATOM	971	CA	PHE A		48.807	8.15/	127.229	
MOTA	972	CB	PHE A		50.261		127.157	1.00 25.32
ATOM	973	CG	PHE A		50.903		125.793	1.00 27.84
MOTA	974	CD1	PHE A		50.179		124.629	1.00 24.77
ATOM	975	CD2	PHE A	124	52.266		125.686	1.00 21.79
ATOM	976	CE1	PHE A	124	50.802		123.385	1.00 29.19
ATOM	977	CE2	PHE A	124	52.894	8.235	124.449	1.00 27.38
MOTA	978	CZ	PHE A		52.164	8.478	123.296	1.00 20.91
ATOM	979	C	PHE A		48.671	6.749	126.675	1.00 21.13
ATOM	980	ō	PHE A		49.181	5.795	127.260	1.00 25.38
ATOM	981	N	ASN A	125	47.933	6.624	125.580	1.00 18.87
ATOM	982	CA	ASN A		47.750	5.342		1.00 25.05
	983	CB	ASN A		46.271	4.982		1.00 22.99
ATOM	984	CG	ASN A		46.073	3.784	123.856	1.00 24.08
ATOM			ASN A		46.916	2 888	123.822	1.00 20.46
ATOM	985	OD1	ASN A	125	44.960	3 749	123.138	1.00 16.10
ATOM	986	ND2			48.380	5.410		1.00 23.43
ATOM	987	C	ASN A	125	47.718		122.542	1.00 23.48
ATOM	988	0	ASN A	125	49.680	5.103		1.00 24.55
atcm	989	N	PRO A		50.589		124.519	1.00 22.87
ATOM	990	CD	PRO A	140	50.363	4./30	~	1.00 22.07

ATOM	991 CA PRO A 126	50.413	5.130 122.160 1.00 22.39
	992 CB PEO A 126	51.829	4.751 122.594 1.00 18.20
MOTA	993 CG PRO A 126	51.564	3.849 123.798 1.00 25.43
MOTA	994 C PRO A 126	49.867	4.224 121.058 1.00 23.18
ATOM	995 O PRO A 126	50.173	4.436 119.893 1.00 20.12
MOTA		49.058	3.232 121.423 1.00 23.27
ATOM		48.493	2.306 120.444 1.00 23.89
ATOM		48.176	0.967 121.118 1.00 24.82
MOTA		47.241	2.864 119.778 1.00 24.76
MOTA		46.806	2.360 118.745 1.00 28.99
MOTA		46.666	3 906 120.367 1.00 22.12
MOTA		45.461	4.494 119.809 1.00 21.43
ATOM		45.732	5.521 118.725 1.00 23.55
ATOM	120	46.875	5.695 118.291 1.00 23.25
MOTA	1004 O GLY A 128 1005 N GLY A 129	44.680	6.199 118.283 1.00 18.03
ATOM	1006 CA GLY A 129	44.822	7.205 117.243 1.00 24.99
ATOM	1007 C GLY A 129	44.600	6.655 115.847 1.00 25.11
MOTA MOTA	1008 O GLY A 129	44.963	7.293 114.857 1.00 24.99
ATOM	1009 N MET A 130	44.002	5.470 115.765 1.00 20.01
ATOM	1010 CA MET A 130	43.729	4.825 114.481 1.00 23.63 3.361 114.744 1.00 22.77
MOTA	1011 CB MET A 130	43.360	
ATOM	1012 CG MET A 130	44.455	2.002
ATOM	1013 SD MET A 130	44.198	
MOTA	1014 CE MET A 130	42.665	
ATOM	1015 C MET A 130	42.580	
MOTA	1016 O MET A 130	41.421	3.23
ATOM	1017 N HIS A 131	42.926	
ATOM	1018 CA HIS A 131	41.933	7.687 112.775 1.00 20.99 9.125 112.891 1.00 21.01
MOTA	1019 CB HIS A 131	42.474	9.391 112.069 1.00 28.30
MOTA	1020 CG HIS A 131	43.699	8.549 111.373 1.00 19.65
MOTA	1021 CD2 HIS A 131	44.498 44.246	10.649 111.917 1.00 27.76
MOTA	1022 ND1 HIS A 131	45.328	10.567 111.163 1.00 20.48
ATOM	1023 CE1 HIS A 131	45.503	9.302 110.820 1.00 24.18
MOTA	1024 NE2 HIS A 131	41.280	7 513 111.416 1.00 23.76
MOTA	1025 C HIS A 131	40.453	8 341 111.051 1.00 21.95
ATOM	1026 O HIS A 131 1027 N HIS A 132	41.600	6 449 110.682 1.00 25.12
MOTA		41.006	6.257 109.354 1.00 23.32
MOTA		42.060	5.715 108.388 1.00 17.87
ATOM	122	43.148	6.689 108.072 1.00 24.79
MOTA	1030 CG HIS A 132 1031 CD2 HIS A 132	44.496	6.574 108.144 1.00 21.72
MOTA	1031 CD2 HIS A 132	42.896	7.944 107.556 1.00 13.58
MOTA ATOM	1033 CE1 HIS A 132	44.044	8.558 107.323 1.00 15.41 7.748 107 668 1.00 15.27
ATOM	1034 NE2 HIS A 132	45.028	7.790 107.000
MOTA	1035 C HIS A 132	39.752	
MOTA	1036 O HIS A 132	38.947	
ATOM	1037 N ALA A 133	39.587	
ATOM	1038 CA ALA A 133	38.453	1 00 17 40
MOTA	1039 CB ALA A 133	38.515	2.417 111.053 1.00 27.49 4.145 109.966 1.00 23.02
ATOM	1040 C ALA A 133	.37.093	5.117 110.691 1.00 25.98
ATOM	1041 O ALA A 133	36.878	3.633 109.148 1.00 18.90
MOTA	1042 N PHE A 134	36.179	4.173 109.103 1.00 23.73
MOTA	1043 CA PHE A 134	34.831 34.317	4.296 107.663 1.00 24.29
MOTA	1044 CB PHE A 134	35.119	5 225 106 801 1.00 26.67
MOTA	1045 CG PHE A 134	36.025	4 724 105.867 1.00 28.69
ATOM	1046 CD1 PHE A 134	34.975	6 605 106 921 1.00 32.49
ATOM	1047 CD2 PHE A 134	36.775	5 582 105.063 1.00 28.65
ATOM	1048 CE1 PHE A 134	35.724	7 479 106 119 1.00 27.86
ATOM	1049 CE2 PHE A 134 1050 CZ PHE A 134	36.623	6.967 105.188 1.00 23.93
ATOM		33.894	3.260 109.884 1.00 25.91
MOTA		34.270	2.172 110.319 1.00 27.20
ATOM	135	32.670	3.728 110.062 1.00 29.14
MOTA	1053 N LYS A 135 1054 CA LYS A 135	31.638	2.984 110.765 1.00 35.29
ATOM	1055 CB LYS A 135	30.294	
ATOM	-056 TVC A 135	29.072	2.779 110.667 1.00 46.26
ATOM			

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* TOM	1057	CD	LYS A 135	27.	834	3.542	110.211	1.00 47.72
ATOM	1057	CE	LYS A 135	26.			110.169	1.00 53.65
MOTA	1056	NZ	LYS A 135	26.			109.167	1.00 53.27
ATOM	1060	C	LYS A 135	31.			110.414	1.00 35.62
ATOM	1061		LYS A 135	31.			111.301	1.00 32.58
MOTA		0 N	SER A 136	31.			109.122	1.00 35.97
ATOM-	1062		SER A 136	31.			108.684	1.00 38.99
ATOM	1063	CA		30.			108.083	1.00 38.87
ATOM	1064	CB	SER A 136	29.			108.975	1.00 43.54
MOTA	1065	OG	SER A 136	32.	_		107.660	1.00 37.84
ATCM	1066		-SER A 136	32.			106.828	1.00 36.33
MOTA	1067	0	SER A 136	32.			107.705	1.00 33.23
MOTA	1068	N	ARG A 137				106.724	1.00 30.89
MOTA	1069	CA	ARG A 137		456		105.385	1.00 33.88
MOTA	1070	CB	ARG A 137				104.201	1.00 44.41
MOTA	1071	CG	ARG A 137 ARG A 137		809		102.880	1.00 46.27
ATOM	1072	CD	ARG A 137			-0.645	101.768	1.00 48.87
MOTA	1073	NE CZ	ARG A 137				100.526	1.00 48.64
ATOM	1074				372		100.220	1.00 51.82
ATOM	1075	NH1 NH2	ARG A 137			-1.169	99.589	1.00 49.01
ATOM	1076		ARG A 137		209		107.143	1.00 31.84
ATOM	1077 1078	С 0	ARG A 137		428		107.742	1.00 30.36
ATOM			ALA A 138		166		106.828	1.00 30.06
ATOM	1079	N CA	ALA A 138				107.158	1.00 32.24
ATOM	1080	CB	ALA A 138				107.048	1.00 31.25
MOTA	1081 1082	СВ	ALA A 138		095		106.187	1.00 29.49
ATOM	1082	0	ALA A 138		612		105.063	1.00 26.11
MOTA	1083	Ŋ	ASN A 139		099		106.615	1.00 29.54
ATOM	1085	CA	ASN A 139		673		105.767	1.00 26.99
ATOM	1085	CB	ASN A 139		685		105.662	1.00 24.10
MOTA MOTA	1087	CG	ASN A 139		209		104.811	1.00 28.02
ATOM	1088	OD1			729		103.727	1.00 26.90
ATOM	1089	ND2			050		105.293	1.00 23.55
ATOM	1090	C	ASN A 139		.027		106.285	1.00 30.17
ATOM	1091	Õ	ASN A 139		245		107.497	1.00 27.55
ATOM	1092	N	GLY A 140	42.	944		105.354	1.00 31.82
ATOM	1093	CA	GLY A 140	44.	. 277		105.702	1.00 24.90
ATOM	1094	C	GLY A 140	45.	.000		106.816	1.00 27.79
MOTA	1095	Ō	GLY A 140	45.	. 560	3.339		1.00 23.85
MOTA	1096	N	PHE A 141		.006		106.768	1.00 24.35
MOTA	1097	CA	PHE A 141	45.	. 679		107.783	1.00 24.53
MOTA	1098	СВ	PHE A 141		.031		108.197	1.00 26.40
MOTA	1099	CG	PHE A 141		. 997		107.062	1.00 30.31
ATOM	1100	CD1	PHE A 141		.145	2.125		1.00 31.60
MOTA	1101	CD2		_	.781		105.802	1.00 29.44
ATOM	1102	CE1		50	.066	2.331	106.243	1.00 30.44
MOTA	1103	CE2	PHE A 141		.694	1.008	104.770	1.00 27.91
ATOM	1104	CZ	PHE A 141		. 840		104.991	1.00 29.38
ATOM	1105	С	PHE A 141		. 846		109.056	1.00 23.53
MOTA	1106	0	PHE A 141		. 194		109.941	1.00 23.09 1.00 22.86
MOTA	1107	N	CYS A 142		.760		109.159	1.00 22.86
atom	1108	CA	CYS A 142	42	.925		110.356	1.00 23.87
MOTA	1109	CB	CYS A 142		. 472		110.723	1.00 27.62
MOTA	1110	SG	CYS A 142		. 828		111.072	1.00 27.02
MOTA	1111	C	CYS A 142		. 694		110.233	1.00 24.20
ATCM	1112	0	CYS A 142		.932		109.272	1.00 23.84
MOTA	1113	N	TYR A 143		.498		111.219	1.00 25.04
MOTA	1114	CA	TYR A 143		.335		111.236	1.00 25.07
MOTA	1115	CB	TYR A 143		.728	7 500	111.680	1.00 27.89
ATOM	1116	CG	TYR A 143		.829	-3.582	110.855	1.00 27.30
ATOM	1117	CD1			.169		110.346	1.00 25.77
ATOM	1118	CE	TYR A 143		.185	-3.8/5 -4.30/	109.762	1.00 25.87
ATOM	1119	CD			.526	_4 041	103.762	1.00 23.10
atom	1120	CE	TYR A 143		.531 .854	-4.741	109.262	1.00 22.93
ATOM	1121	CZ	TYR A 143		.849	_E 017	108.476	1.00 20.64
ATOM	1122	ЭН	TYR A 143	44	.047	-3.21	, 100.470	1,00 20.01

ATOM ATOM	1123 C TYR A 143 1124 O TYR A 143	39.281 -0.991 112.193 1.00 24.56 38.085 -1.030 111.905 1.00 24.88 39.734 -0.471 113.331 1.00 23.77
ATOM	1125 N ILE A 144	33.734
ATOM	1126 CA ILE A 144	36.633 3.00 34 56
MOTA	1127 CB ILE A 144	36.071
ATOM	1128 CG2 ILE A 144	37.341
MOTA	1129 CG1 ILE A 144	30.430
ATOM	1130 CD1 ILE A 144	30.333
MOTA	1131 C ILE A 144	39.248 1.550 114.627 1.00 24.13 40.428 1.843 114.800 1.00 24.42
MOTA	1132 O ILE A 144	38.277 2.453 114.669 1.00 22.04
ATOM .	1133 N ASN A 145	38 555 3.866 114.920 1.00 21.31
MOTA	1134 CA ASN A 145 1135 CB ASN A 145	37,559 4,732 114.133 1.00 18.87
ATOM	1135 CB ASN A 145 1136 CG ASN A 145	37.956 6.205 114.091 1.00 22.21
ATOM ATOM	1137 OD1 ASN A 145	38.223 6.823 115.124 1.00 22.47
ATOM	1138 ND2 ASN A 145	37.978 6.776 112.892 1.00 23.78 38.417 4.141 116.418 1.00 22.63
ATOM	1139 C ASN A 145	30.41
ATOM	1140 O ASN A 145	37.333
ATOM	1141 N ASN A 146	400 1 00 17 57
ATOM	1142 CA ASN A 146	40 708 3.678 119.320 1.00 19.80
MOTA	1143 CB ASN A 146	41 924 4 508 118.967 1.00 27.81
ATOM	1144 CG ASN A 146 1145 OD1 ASN A 146	42 299 5.421 119.704 1.00 19.55
ATOM	1145 OD1 ASN A 146 1146 ND2 ASN A 146	42.544 4.202 117.827 1.00 19.55
ATOM	1140 ND2 ASN A 146	39.079 5.602 119.023 1.00 26.32
ATOM ATOM	1148 O ASN A 146	38.452 5.827 120.059 1.00 28.34 39.512 6.605 118.231 1.00 28.46
ATOM	1149 N PRO A 147	33.312
ATOM	1150 CD PRO A 147	40.303
MOTA	1151 CA PRO A 147	39.150 7.972 118.618 1.00 24.15 39.859 8.815 117.558 1.00 25.13
MOTA	1152 CB PRO A 147	41 081 7.959 117.235 1.00 30.05
MOTA	1153 CG PRO A 147 1154 C PRO A 147	37 618 R 136 118.578 1.00 26.71
ATOM		37.017 8.760 119.456 1.00 24.93
ATOM	1155 O PRO A 147 1156 N ALA A 148	36.989 7:557 117.562 1.00 21.42
MOTA MOTA	1157 CA ALA A 148	35.536 7.633 117.416 1.00 21.03
ATOM	1158 CB ALA A 148	33.112
ATOM	1159 C ALA A 148	34.030
ATOM	1160 O ALA A 148	33.822 7.344 119.067 1.00 21.44 35.381 5.739 118.928 1.00 19.20
ATOM	1161 N VAL A 149	34 818 4 950 120.016 1.00 24.61
ATOM	1162 CA VAL A 149 1163 CE VAL A 149	35.570 3.608 120.181 1.00 25.96
ATOM	1163 CE VAL A 149 1164 CG1 VAL A 149	35.158 2.918 121.485 1.00 26.58
ATOM ATOM	1165 CG2 VAL A 149	35.262 2.704 118.995 1.00 25.67
ATOM	1166 C VAL A 149	34.947 5.752 121.304 1.00 23.56 33.990 5.887 122.064 1.00 22.52
ACTA	1167 O VAL A 149	33.330
ATOM	1168 N GLY A 150	36.143 6.287 121.536 1.00 24.63 36.390 7.074 122.731 1.00 22.82
ATOM	1169 CA GLY A 150	25 477 8 281 122.838 1.00 25.46
ATOM	1170 C GLY A 150	34.919 8.564 123.904 1.00 23.17
ATOM	1171 O GLY A 150 1172 N ILE A 151	35.327 9.001 121.733 1.00 24.38
ATOM	1172 N ILE A 151 1173 CA ILE A 151	34.481 10.180 121.716 1.00 22.85
ATOM ATOM	1174 CB ILE A 151	34.610 10.928 120.371 1.00 24.43
ATOM	1175 CG2 ILE A 151	33.370
ATOM	1176 CG1 ILE A 151	20.032
ATOM	1177 CD1 ILE A 151	10.554 10.00 1 00 10
ATOM	1178 C ILE A 151	32 337 10 482 122.763 1.00 26.37
ATOM	1179 O ILE A 151	32.532 8.734 121.364 1.00 26.32
ATOM	1180 N GLU A 152 1181 CA GLU A 152	31.149 8.314 121.601 1.00 30.07
ATOM	1181 CA GLU A 152 1182 CB GLU A 152	30.758 7.161 120.672 1.00 29.37
ATOM	1183 CG GLU A 152	30.609 7.543 119.194 1.00 27.68
ATOM ATOM	1184 CD GLU A 152	29,433
ATOM	1185 CE1 GLU A 152	
ATOM	1186 OE2 GLU A 152	21 009 7 879 123.055 1.00 28.00
ATCM	1187 C GLU A 132	29.980 8.096 123.683 1.00 31.23
ATOM		**************************************

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ATOM

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7.253 123.583 1.00 28.72 32.054 MOTA 1189 TYR A 153 6.805 124.971 1.00 31.35 TYR A 153 32.066 1190 ATOM CA 6.204 125.307 1.00 31.56 33.427 1191 TYR A 153 ATOM CB 1.00 33.17 5.839 126.759 TYR A 153 33.617 1192 CG ATOM 4.647 127.280 1.00 35.43 1193 CD1 TYR A 153 33.111 ATOM 4.298 128.619 1.00 33.52 CE1 TYR A 153 33.321 ATOM 1194 6.677 127.611 1.00 34.29 1195 CD2 TYR A 153 34.329 MOTA 6.342 128.944 1.00 35.34 34.544 1196 CE2 TYR A 153 ATOM 34.041 5.154 129.444 4.835 130.767 1.00 37.50 TYR A 153 1197 CZMOTA 1.00 30.10 1198 OH TYR A 153 34.260 MOTA 8.022 125.857 1.00 32.71 TYR A 153 31.828 MOTA 1199 С 7.988 126.787 1.00 29.14 31.026 TYR A 153 1200 0 MOTA 9.102 125.552 32.538 1.00 29.65 LEU A 154 1201 N MOTA 1.00 32.87 32.413 10.332 126.310 LEU A 154 1202 CA MOTA 1.00 31.46 1.00 29.68 33.477 -11.329 125.847 LEU A 154 MOTA 1203 CB 34.910 11.053 126.324 LEU A 154 1204 CG MOTA 35.898 11.953 125.605 1.00 29.29 CD1 LEU A 154 1205 ATOM 34.989 11.278 127.829 1.00 27.19 CD2 LEU A 154 ATOM 1206 1.00 34.63 31.020 10.952 126.232 LEU A 154 1207 С MOTA 30.475 11.379 127.250 1.00 32.58 1208 0 LEU A 154 ATOM 30.443 10.999 125.035 29.107 11.569 124.869 ARG A 155 1.00 36.63 1209 ATOM N 1.00 38.36 1210 CA ARG A 155 ATOM 28.661 11.502 123.405 1.00 36.32 ARG A 155 ATOM 1211 CB 29.581 12.253 122.460 1.00 43.15 ARG A 155 ATOM 1212 CG 29.100 12.201 121.023 1.00 41.10 ARG A 155 1213 CD MOTA 27.936 13.047 120.768 1.00 44.00 ARG A 155 1214 ATOM NE 1.00 54.07 13.140 119.583 27.331 ARG A 155 ATOM 1215 C7. 27.772 12.441 118.540 1.00 51.61 NH1 ARG A 155 1216 ATOM 26.291 13.948 119.424 1.00 51.76 NH2 ARG A 155 1217 ATOM 28.112 10.821 125.745 1.00 36.25 ARG A 155 1218 С ATOM 27.270 11.433 126.397 1.00 39.00 ARG A 155 MOTA 1219 0 1.00 36.48 28.213 9.496 125.765 LYS A 156 ATOM 1220 N 8.698 126.587 27.315 1.00 39.06 1221 CA LYS A 156 ATOM 7.213 126.256 1.00 41.88 LYS A 156 27.460 1222 CB ATOM 1.00 51.15 6.816 125.020 LYS A 156 26.672 1223 CG MOTA 1.00 55.56 1.00 55.63 7.505 123.781 27.169 LYS A 156 MOTA 1224 CD 7.502 122.676 8.425 123.013 LYS A 156 26.117 MOTA 1225 CE 1.00 49.15 24.993 ATOM 1226 NZ LYS A 156 8.932 128.076 1.00 39.91 27.527 1227 С LYS A 156 MOTA 8.658 128.876 1.00 37.01 26.636 .1228 0 LYS A 156 ATOM 9.431 128.448 1.00 37.73 LYS A 157 28.703 1229 N MOTA 28.985 9.725 129.847 1.00 36.52 LYS A 157 MOTA 1230 CA 1.00 35.64 9.700 130.122 30.493 LYS A 157 CB MOTA 1231 8.308 130.174 1.00 35.44 31.094 MOTA LYS A 157 1232 CG 1.00 31.28 30.509 7.510 131.335 LYS A 157 ATOM 1233 CD 6.106 131.388 1.00 31.48 LYS A 157 31.077 MOTA 1234 CE 5.310 132.493 11.097 130.197 1.00 36.39 1.00 38.12 30.464 MOTA 1235 NZ LYS A 157 28.423 LYS A 157 C ATOM 1236 11.547 131.336 1.00 37.61 LYS A 157 28.531 MOTA 1237 0 27.842 11.768 129.205 1.00 36.27 MOTA 1238 N **GLY A 158** 1.00 34.31 13.074 129.452 27.257 **GLY A 158** 1239 MOTA CA 14.293 128.894 1.00 36.36 27.972 **GLY A 158** 1240 С ATOM 15.399 128.963 1.00 32.96 27.438 ..1241 GLY A 158 MOTA 0 14.117 128.344 1.00 33.89 29.170 PHE A 159 MOTA 1242 N 15.260 127.796 1.00 30.29 29.892 PHE A 159 ATOM 1243 CA PHE A 159 31.346 14.892 127.504 1.00 28.62 1244 CB ATOM 1.00 28.80 14.555 128.730 PHE A 159 32.137 1245 CG MOTA 1.00 30.41 13.300 129.310 CD1 PHE A 159 32.043 1246 MOTA 15.513 129.327 1.00 29.37 32.951 CD2 PHE A 159 1247 ATOM 1.00 34.42 12.996 130.472 CE1 PHE A 159 32.749 1248 ATOM 15.223 130.488 1.00 31.10 1249 CE2 PHE A 159 33.661 MOTA 1250 1251 PHE A 159 33.561 13.963 131.062 1.00 32.32 CZ ATOM 1.00 28.88 15.786 126.536 PHE A 159 29.224 MOTA С 1.00 27.71 1.00 30.20 28.765 15.003 125.705 PHE A 159 1252 0 ATOM 29.180 17.110 126.402 1.00 30.20 28.550 17.766 125.254 1.00 33.98 LYS A 160 1253 N . ATCM CA LYS A 160

1.00 36.87

Figure 18-20

27.390 18.653 125.719 LYS A 160 CBMOTA 1255 1.00 39.48 26.273 17.914 126.419 LYS A 160 1256 CG MOTA 18.850 126.723 1.00 48.58 25.105 LYS A 160 CD 1257 MOTA 20.003 127.651 1.00 50.81 25.500 LYS A 160 1258 CE MOTA 1.00 49.79 19.534 129.008 25.924 LYS A 160 1259 NZ MOTA 1.00 32.59 18.616 124.394 29.484 LYS A 160 C 1260 MOTA 1.00 30.98 19.085 123.327 29.093 LYS A 160 1261 0 ATOM 18.846 124.867 1.00 31.43 30.700 ARG A 161 1262 · N MOTA 1.00 29.97 31.665 19.626 124.108 ARG A .161 1263 CA ATOM 1.00 34.45 21.048 124.673 31.781 ARG A 161 1264 CB MOTA 1.00 37.63 21.854 124.610 30.476 ARG A 161 1265 CG MOTA 1.00 39.01 23.321 124.966 30.705 ARG A 161 1266 CD MOTA 23.503 126.341 1.00 43.76 31.158 ARG A 161 NE MOTA 1267 1.00 43.33 23.337 127.414 30.389 ARG A 161 1268 czMOTA 1.00 45.95 22.985 127.274 29.117 NH1 ARG A 161 MOTA 1269 23.518 128.627 1.00 43.74 30.893 NH2 ARG A 161 1270 MOTA 1.00 32.71 18.910 124.161 33.009 ARG A 161 1271 С MOTA 19.090 125.092 1.00 28.53 33.792 ARG A 161 1272 0 ATOM 18.087 123.149 1.00 32.50 33.257 ILE A 162 N 1273 MOTA 1.00 28.52 34.485 17.313 123.049 ILE A 162 ILE A 162 CA 1274 MOTA 15.821 122.820 1.00 31.42 34.146 MOTA 1275 CB 14.976 122.898 1.00 24.95 35.407 CG2 ILE A 162 1276 ATOM 1.00 30.25 15.355 123.879 33.147 CG1 ILE A 162 1277 MOTA 13.977 123.635 1.00 34.27 32.564 CD1 ILE A 162 1278 MOTA 1.00 26.46 17.816 121.886 35.353 ILE A 162 1279 C MOTA 1.00 27.88 17.973 120.762 34.876 ILE A 162 1280 0 MOTA 18.067 122.168 1.00 23.13 36.626 LEU A 163 N ATOM 1281 1.00 25.74 18.534 121.156 37.575 LEU A 163 1282 ĆA MOTA 1.00 26.25 19.729 121.681 38.384 LEU A 163 MOTA 1283 CB 20.138 120.862 1.00 24.39 39.626 CG LEU A 163 CD1 LEU A 163 1284 ATOM 1.00 26.25 20.591 119.473 39.213 1285 MOTA 21.252 121.560 1.00 27.76 40.361 CD2 LEU A 163 1286 MOTA 1.00 27.09 17.416 120.792 38.547 LEU A 163 1287 C MOTA 1.00 25.25 39.053 16.721 121.674 LEU A 163 TYR A 164 1288 0 1.00 26.97 MOTA 17.257 119.496 38.808 N 1289 1.00 26.97 ATOM 16,241 119.010 39.747 TYR A 164 1290 CA MOTA 15.181 118.179 1.00 23.38 39.021 TYR A 164 CB 1291 1.00 21.76 MOTA 14.146 117.565 39.944 TYR A 164 1292 CG MOTA 1.00 22.49 13.179 118.353 40.563 CD1 TYR A 164 1293 1.00 22.90 MOTA 12.224 117.794 41.419 CE1 TYR A 164 1294 ATOM 14.142 116.194 1.00 18.74 TYR A 164 40.202 1295 CD2 1.00 23.36 MOTA 13.190 115.616 41.060 TYR A 164 1296 CE2 MOTA 1.00 21.50 12.235 116.426 41.663 TYR A 164 1297 CZ ATOM 11.296 115.878 1.00 18.41 42.506 TYR A 164 1298 OH 1.00 21.67 ATOM 16.923 118.138 40.798 TYR A 164 1299 С 1.00 19.75 ATOM 17.511 117.112 40.473 TYR A 164 1300 0 1.00 25.61 ATOM 16.843 118.551 42.057 ILE A 165 1301 N ATOM 17.462 117.804 1.00 24:43 43.149 43.963 ILE A 165 1302 CA ATOM 1.00 26.41 18.396 118.717 ILE A 165 1303 CB ATOM 19.017 117.937 1.00 19.36 45.127 CG2 ILE A 165 1304 1.00 23.36 ATOM 19.482 119.274 CG1 ILE A 165 CD1 ILE A 165 43.035 1305 ATOM 1.00 25.05 20.402 120.299 43.685 1306 1.00 26.91 MOTA 16.365 117.234 44.040 ILE A 165 1307 С 1.00 21.91 MOTA 15.505 117.971 44.538 ILE A 165 0 1308 MOTA 16.408 115.920 1.00 24.20 44.242 ASP A 166 1309 N 1.00 27.11 ATOM 15.386 115.228 45.022 ASP A 166 CA 1.00 28.56 ATOM 1310 14.765 114.137 44.140 ASP A 166 CB 1311 1.00 34.59 ATOM 13.461 113.599 44.699 ASP A 166 CG 1.00 30.37 1312 13.456 113.068 ATOM 45.831 OD1 ASP A 166 1313 MOTA 1.00 23.27 43.995 12.437 113.717 OD2 ASP A 166 1314 1.00 24.47 ATOM 46.319 15.924 114.614 ASP A 166 1315 1.00 23.19 ATOM 16.613 113.591 46.295 ASP A 166 Э 1316 1.00 23.43 15.597 115.227 ATCM 47.452 LEU A 167 N 1317 16.068 114.722 1.00 24.67 ATOM 48.738 LEU A 167 1.00 21.90 CA 1318 16.382 115.887 ATOM 49.682 LEU A 167 1.00 26.62 1319 CB ATOM 17.444 116.858 49.143 LEU A 167 1320 CG ATOM

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					EO 240	17.845	117 921	1.00 25.88
ATOM	1321		LEU A		50.249 48.658	18.668		1.00 22.40
ATOM	1322		LEU A		49.405	15.092		1.00 25.82
MOTA	1323 1324	C 0	LEU A		50.504	15.345		1.00 21.89
MOTA	1325	N	ASP A		48.736	13.977	113.488	1.00 24.69
ATOM-	1326	CA	ASP A		49.244	12.975	112.555	1.00 24.59
ATOM	1327	CB	ASP A		48.209		112.410	1.00 27.12
ATOM	1328	CG	ASP A		48.722	10.669	111.608	1.00 28.11
MOTA	1329	c	ASP A		49.423	13.686	111.209	1.00 24.17
ATOM	1330	0	ASP A	168	48.629	14.559		1.00 17.18
ATOM	1331		ASP A		49.085		112.227	1.00 25.40 1.00 34.72
MOTA	1332	QD2	ASP A	168	48.777		110.364 110.446	1.00 34.72
MOTA	1333	N	ALA A		50.448		109.140	1.00 25.00
MOTA	1334	CA	ALA A		50.693 52.068		108.601	1.00 21.17
ATOM	1335	CB	ALA A ALA A		49.612	13.636	108.093	1.00 26.57
ATOM	1336	C	ALA A	169	49.641	14.204	107.000	1.00 26.90
	. 1337 1338	N O	HIS A	170	48.673	12.746	108.406	1.00 21.63
ATOM ATOM	1339	CA	HIS A	170	47.592		107.468	1.00 24.79
ATOM	1340	C	HIS A		46.243	12.867	108.045	1.00 20.98
ATOM	1341	0	HIS A		46.044	12.849	109.255	1.00 24.12
ATOM	1342	CB	HIS A		47.550	10.950	107.131	1.00 23.17
ATOM	1343	CG	HIS A		48.830		106.570	1.00 30.28 1.00 31.00
MOTA	1344		HIS A	170	49.842	9.982 9.634	107.385 106.577	1.00 31.00
MOTA	1345	CEl			50.825 49.224	10.329	105.273	1.00 22.88
ATOM	1346		HIS A	170	50.502		105.285	1.00 21.89
ATOM	1347	NE2	HIS A		45.317	13.231	107.171	1.00 21.14
MOTA	1348 1349	N CA	HIS A		43.993	13.661	107.591	1.00 25.57
MOTA MOTA	1350	CB	HIS A		43.234	14.242	106.404	1.00 22.47
ATOM	1351	CG	HIS A		41.857	14.719	106.746	1.00 29.75
MOTA	1352	CD2	HIS A	171	41.433	15.648		1.00 25.58
ATOM	1353	ND1			40.721	14.201		1.00 28.90 1.00 25.35
ATOM	1354		HIS A	171	39.656	14.787	106.676 107.573	1.00 23.33
MOTA	1355	NE2	HIS A	171	40.060	15.669 12.533		1.00 29.61
MOTA	1356	C	HIS A		43.169 43.169	11 411	107.698	1.00 27.62
MOTA	1357 1358	И О	CYS A		42.461	12.852		1.00 26.52
ATOM ATOM	1359	CA	CYS A		41.610	11.897	109.987	1.00 24.82.
ATOM	1360	СВ	CYS A	172	41.460	12.322	111.456	1.00 29.47
MOTA	1361	SG	CYS A	172	40.959	14.065		1.00 25.69
ATOM	1362	С	CYS A	172	40.237	11.797	109.314	1.00 28.21 1.00 26.78
MOTA	1363	0	CYS A		39.211	12.131		1.00 26.78 1.00 22.05
MOTA	1364	N	ASP A	173	40.213	11.332 11.217		1.00 27.39
ATOM	1365	CA	ASP A		38.949 39.167	10.646		1.00 30.47
MOTA	1366	CB	ASP A ASP A		39.824	9.264	105.922	1.00 29.77
MOTA	1367 1368	CG	ASP A		39.886	8.658	104.830	1.00 21.14
MOTA MOTA	1369	OD:	ASP A	173	40.288	8.787	106.978	1.00 30.04
ATOM	1370	C C	ASP A	173	3 7 .895	10.400	108.105	1.00 27.86
ATOM	1371	0	ASP A	173	36.720	10.762	108.120	1.00 23.47
ATOM	1372	N	GLY A		38.309	9.315	108.753	1.00 25.84 1.00 28.49
MOTA	1373	CA	GLY A		37.344	8.513	109.490 110.619	1.00 26.14
MOTA	1374	С	GLY A		36.694	9.290	110.780	1.00 21.39
MOTA	1375	0	GLY A		35.475 37.510	9.207	111.409	1.00 27.24
ATOM	1376	N	VAL A VAL A		36.995	10 773	112.523	1.00 25.53
ATOM	1377	CA	VAL A		38.137	11.299	113.401	1.00 30.54
ATOM	1378 1379	C3 CG	VAL A 1 VAL A		37.565	12.105	3 114.566	1.00 28.02
ATOM	1379	CG	2 VAL A	175	38.973	10.129	113.911	1.00 21.30
atom atom	1381	C	VAL A		36.163	11.95	5 112.035	1.00 25.01
ATOM	1382	ō	VAL A	175	35.130	12.282	112.623	1.00 21.60
ATOM	1383	N	GLN A		36.601	12.594	4 110.957	1.00 25.43 1.00 26.12
ATOM	1384		GLN A	176	35.854	14.73	0 110.426 6 109.205	
ATCM	1385		GLN A	176	36.554 35.682	15 3/4	9 108.469	
ATOM	1386	CG	GLN A	7 1/0	33.002	¥		= • • • • • • • • • • • • • • • • • • •



		B		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1387 CD GLN A 176 1388 OE1 GLN A 176 1389 NE2 GLN A 176 1390 C GLN A 176 1391 O GLN A 177 1392 N GLU A 177 1393 CA GLU A 177 1394 CB GLU A 177 1395 CG GLU A 177 1396 CD GLU A 177 1397 CE1 GLU A 177 1398 OE2 GLU A 177 1399 C GLU A 177 1400 O GLU A 177 1401 N ALA A 178 1402 CA ALA A 178 1403 CB ALA A 178 1404 C ALA A 178 1404 C ALA A 178 1405 O ALA A 178 1406 N PHE A 179 1407 CA PHE A 179 1408 CB PHE A 179 1409 CG PHE A 179 1410 CD1 FHE A 179 1411 CD2 PHE A 179 1411 CD2 PHE A 179 1412 CE1 PHE A 179 1414 CZ PHE A 179 1415 C PHE A 179 1416 O PHE A 179 1417 N TYR A 180 1418 CA TYR A 180 1420 CG TYR A 180 1421 CD1 TYR A 180 1422 CE1 TYR A 180 1423 CD2 TYR A 180 1424 CE2 TYR A 180 1425 CZ TYR A 180 1426 OH TYR A 180 1427 C TYR A 180 1428 C TYR A 180 1429 N ASP A 181 1431 CB ASP A 181 1433 OD1 ASP A 181 1431 CB ASP A 181 1433 OD1 ASP A 181 1433 CB THR A 182 1436 O ASP A 181 1437 N THR A 182 1438 CA THR A 182 1439 CB THR A 182 1439 CB THR A 182	33.00 32.08 32.44 29.51 29.45 28.47 27.18 26.08 25.5 24.42 26.79 27.60 27.	16.704 107.486 1 15.776 106.099 1 13.316 110.029 1 14.021 110.319 1 12.173 109.362 1 1.696 108.915 1 0.445 108.053 1 0.069 107.329 8.819 106.497 7.712 107.075 8.947 105.264 11.377 110.099 11.697 110.099 11.697 110.099 11.697 110.365 112.303 9.658 113.289 11.519 113.003 11.355 113.493 12.688 113.751 14.128 115.001 12.909 115.781 12.375 115.657 12.233 116.563 11.184 116.293 11.038 117.204 10.515 117.067 15.037 112.891 16.152 113.399 14.828 112.584 15.925 110.646 15.378 109.213 16.406 108.172 16.846 107.204 17.791 106.244 16.937 108.172 16.846 107.204 17.791 106.244 16.937 108.154 17.879 107.203 18.304 106.250 19.255 105.323 16.696 110.825 17.894 110.560 3 16.026 111.299 16.691 111.444 15.833 110.807 17.894 110.560 3 16.026 111.299 16.691 111.444 15.833 110.807 17.894 110.560 3 16.026 111.299 16.691 111.444 15.833 110.807 17.894 110.560 3 16.026 111.299 16.691 111.444 15.833 110.807 17.044 112.866 17.066 113.109 17.066 113.963 112.233 14.504 111.871 17.044 112.866 17.066 113.109 17.06	1.00 43.25 1.00 46.56 1.00 36.81 1.00 33.91 1.00 40.86 1.00 38.27 1.00 37.99 1.00 35.64 1.00 35.61
atom atom	1436 O ASP A 181 1437 N THR A 182	25.5° 27.68	71 17.286 113.109 39 17.066 113.810	1.00 40.86 1.00 38.27
	1439 CB THR A 182	27.4	16.201 116.133	1.00 35.64
	1441 CG2 THR A 187	28.8	59 15.684 116.194	1.00 35.61
ATOM	1442 C THR A 187	28.1	65 18.673 115.433	1.00 40.07
ATOM ATOM	1444 N ASP A 183	3 27.5	57 19.369 116.582	1.00 37.01 1.00 37.74
ATOM	1445 CA ASP A 183	28.2 3 27.3	13 21.706 117.228	1.00 35.56
ATOM ATOM	1447 CG ASP A 18	3 26.1	36 21.493 118.155	1.00 38.01
ATOM	1448 OD1 ASP A 18	3 25.6		1.00 38.17
ATOM	1449 OD2 ASP A 18		62 20.161 118.578	1.00 35.27
ATOM ATOM	1451 O ASP A 18	3 29.3	37 21.015 119.251	1.00 35.16 1.00 35.10
ATOM	7 7 7 10	4 28.5	62 18.917 119.012	1.00 33.40

a TOM	1453	CA GLN A 18	34	29.030	18.505	120.333	1.00 35.16
MOTA				28.155	17.382	120.906	1.00 36.94
MOTA	1454				17 710	120.988	1.00 38.34
MOTA	1455	CG GLN A 18		26.663	17.710	120.500	1.00 43.68
ATOM	1456	CD GLN A 18	34	25.881	16.725	121.838	
MOTA	1457	OE1 GLN A 18	34	26.027		121.696	1.00 35.48
ATOM	1458	NE2 GLN A 18		25.036	17.243	122.723	1.00 51.06
				30.479	18.035	120.253	1.00 36.32
ATOM	1459			31.135	17.825	121.275	1.00 34.24
ATOM	1460	O GLN A 18				119.028	1.00 34.51
ATOM	1461	N VAL A 18		30.976			
MOTA	1462	CA VAL A 18	85	32.348		118.804	1.00 33.59
ATOM	1463	CB VAL A 18	85	32.393		118.259	1.00 35.11
	1464	CG1 VAL A 18		33.834	15.567	118.003	1.00 23.80
ATOM	1465	CG2 VAL A 1	85	31.731		119.242	1.00 26.00
MOTA		CG2 VAL A 1	05	33.053	18 354	117.803	1.00 33.11
MOTA	1466	C VAL A 1				116.714	1.00 27.73
MOTA	1467	O VAL A 1		32.545			1.00 31.49
MOTA	1468		86	34.215		118.184	
MOTA	1469	CA PHE A 1	86	34.985	19.729	117.291	1.00 30.63
ATOM	1470	CB PHE A 1		35.420	21.023	117.991	1.00 30.34
	1471	CG PHE A 1		36.008	22.047	117.051	1.00 30.22
MOTA		CD1 PHE A 1		35.265	23.156	116.656	1.00 32.23
MOTA	1472			37.284		116.524	1.00 29.37
MOTA	1473	CD2 PHE A 1	00	35.785		115.748	1.00 27.87
MOTA	1474	CE1 PHE A 1	86				1.00 28.54
MOTA	1475	CE2 PHE A 1	86	37.813		115.615	
ATOM	1476	CZ PHE A 1	86	37.064	23.892	115.227	1.00 30.80
ATOM	1477	C PHE A 1	86	36.232	18.952	116.879	1.00 33.38
ATOM	1478	O PHE A 1		36.952	18.426	117.729	1.00 28.30
		N VAL A 1		36.478	18.877	115.574	1.00 32.00
MOTA	1479			37.645		115.060	1.00 29.70
MOTA	1480			37.252	17 095	114.019	1.00 30.03
MOTA	1481	CB VAL A 1			17.093	113.405	1.00 27.77
MOTA	1482	CG1 VAL A 1		38.510			1.00 25.98
ATOM	1483	CG2 VAL A 1	.87	36.410		114.672	
ATOM	1484	C VAL A 1	.87	38.604	19.153	114.392	1.00 31.03
ATOM	1485	O VAL A 1		38.215		113.491	1.00 31.88
	1486	N LEU A 1		39.850	19:157	114.857	1.00 24.88
MOTA			.88	40.899	20.010		1.00 26.92
MOTA	1487	_		41.468		115.361	1.00 27.04
MOTA	1488	CB LEU A 1			21.565		1.00 25.15
MOTA	1489		.88	42.823			1.00 18.53
ATOM	1490	CD1 LEU A 1	.88	42.686	22.315		
MOTA	1491	CD2 LEU A 1	.88	43.330	22.485		1.00 28.81
ATOM	1492	C LEU A 1	.88	42.022	19.113		1.00 31.22
ATOM	1493	O LEU A 1	.88	42.579	18.333		1.00 25.83
	1:94	N SER A 1		42.369	19.230	112.540	1.00 30.53
MOTA				43.429	18.399		1.00 30.13
ATOM	1495			42.821	17.249		1.00 33.41
ATCM	1496	CB SER A 1		43.837		110.588	1.00 32.98
MOTA	1497	OG SER A 1			10.4/4	110.300	1.00 27.94
ATOM	1498	C SER A 1		44.448		111.143	1.00 27.34
ATOM	1499	O SER A 1	L89	44.084		11 253	1.00 22.14
ATOM	1500	N LEU A 1	L90	45.728	18.877	11 .423	1.00 24.80
MOTA	1501	CA LEU A 1		46.805	19.438	110.614	1.00 22.23
	1502	CB LEU A 1		47.955	20.000	111.459	1.00 23.69
ATOM		_		47.733	21.075	112.522	1.00 28.92
MOTA	1503				21 780	112.740	1.00 23.01
ATOM	1504	CD1 LEU A 1		49.070	21.700	112.740	1.00 28.11
MOTA	1505	CD2 LEU A 1		46.691	22.093	112.087	1.00 22.69
MOTA	1506	C LEU A	190	47.300	18.210	109.872	
MOTA	1507	o LEUA 3	190	47.416	17.141	110.465	1.00 16.55
ATOM	1508	N HIS A		47.599	18.353	108.587	1.00 19.22
	1509	CA HIS A		48.046	17.210	107.804	1.00 23.28
MOTA			101	46.870	16.247	107.650	1.00 15.58
ATOM	2510	CB HIS A	101	45.591	16 91	107.256	
ATOM	1511	CG HIS A	171 101		17 17	106.038	
ATOM	1512	CD2 HIS A	191	45.034	17.124	100.030	
ATOM	1513	ND1 HIS A	191	44.595	17.41	108.176	
ATCM	1514	CE1 HIS A	191	43.644	17.91	3 107.545	1.00 19.78
	1515	NE2 HIS A	191	43.823	17.74	6 106.246	1.00 27.87
ATOM	1516	C HIS A	191	48.570	17.62	0 106.434	1.00 23.65
ATOM			191	48.419	18.76	1 106.017	1.00 23.89
ATOM	1517		192	49.209	16 68	1 105.746	
ATOM	1518	N GLN A	176	45.205	_0.00	- ~	-

- mom	1519	CA GLN A 192		49.718	16.950		1.00 20.55
ATOM ATOM	1520	CB GLN A 192		50.474	15.738		1.00 23.63
ATOM	1521	CG GLN A 192		51.528	15.181		1.00 24.07
ATOM	1522	CD GLN A 192		52.110	13.876		1.00 26.90
ATOM	1523	OE1 GLN A 192		52.986	13.860	·	1.00 20.21 1.00 23.52
MOTA	1524	NE2 GLN A 192		51.605		104.828	1.00 23.32
MOTA	1525	C GLN A 192		48.478	17.174	103.570	1.00 21.41
ATOM	1526	O GLN A 192		47.478		103.726 102.692	1.00 24.36
MOTA	1527	N SER A 193		48.528	18.167 18.448	101.821	1.00 23.98
MOTA	1528	CA SER A 193		47.397	19.537	100.820	1.00 24.60
MOTA	1529	CB SER A 193	-	47.750 46.729	19.660	99.861	1.00 25.83
MOTA	1530	OG SER A 193		46.729	17.200	101.045	1.00 23.74
MOTA	1531	C SER A 193		47.829	16.492	100.506	1.00 19.80
MOTA	1532	O SER A 193 N PRO A 194		45.674	16.936	100.953	1.00 24.85
ATOM	1533 1534	N PRO A 194 CD PRO A 194		44.561		101.507	1.00 25.08
MOTA	1535	CA PRO A 194		45.151	15.772	100.235	1.00 29.25
MOTA MOTA	1536	CB PRO A 194		43.641	15.901	100.444	1.00 30.51
ATOM	1537	CG PRC A 194		43.554	16.643	101.758	1.00 30.21
ATOM	1538	C PRO A 194		45.527	15.825	98.756	1.00 30.75
ATOM	1539	O PRO A 194		45.420	14.830	98.041	1.00 30.04 1.00 26.28
ATOM	1540	N GLU A 195		45.967	16.991	98.298	1.00 20.28
MOTA	1541	CA GLU A 195		46.343	17.127	96.898 96.571	1.00 31.11
ATOM	1542	CB GLU A 195		46.738	18.570 19.600	96.933	1.00 38.32
MOTA	1543	CG GLU A 195		45.680 45.976	20.972	96.352	1.00 44.15
MOTA	1544	CD GLU A 195		47.139	21.425	96.434	1.00 44.23
MOTA	1545	OE1 GLU A 195		45 027	21.605		1.00 45.06
ATOM	1546	OE2 GLU A 195 C GLU A 195		47.499	16.193		1.00 30.81
MOTA	1547	O GLU A 195		47.582	15.705	· - -	1.00 37.17
ATOM	1548 1549	N TYR A 196		48.377	15.922		1.00 25.01
MOTA MOTA	1550	CA TYR A 196		49.517	15.053		1.00 23.43
ATOM	1551	CB TYR A 196		50.810	15.881		1.00 26.67
MOTA	1552	CG TYR A 196		51.255	16.424	98.572	1.00 26.78 1.00 26.08
ATOM	1553	CD1 TYR A 196		51.957	15.625		1.00 26.77
MOTA	1554	CE1 TYR A 196		52.338	16.110 17.731		1.00 27.55
ATOM	1555	CD2 TYR A 196		50.944 51.320	18.226	100.216	1.00 25.95
MOTA	1556	CE2 TYR A 196 CZ TYR A 196		52.012	17.409		1.00 24.78
MOTA	1557			52.356	17.879		1.00 25.50
ATOM	1558 1559	OH TYR A 196 C TYR A 196		49.670	13.906	98.229	1.00 27.05
ATOM	1560	O TYR A 196		50.585	13.088		1.00 24.02
MOTA MOTA	1561	N ALA A 197		48.785	13.822	99.214	1.00 22.10 1.00 24.90
ATOM	1562	CA ALA A 197		48.928	12.760	100.199	1.00 24.90 1.00 27.83
ATOM	1563	CB ALA A 197		49.627	13.30	7 101.437 9 100.608	1.00 26.20
ATOM	15 54	C ALA A 197		47.644	12.003	7 100.484	1.00 22.82
ATOM	11.65	0 ALA A 197		46.553 47.795	10.84	9 101.102	1.00 31.74
ATOM	1556	N PHE A 198		46.663	10.07	2 101.580	1.00 28.74
MOTA	1567	CA PHE A 198 CB PHE A 198		47.130	8.69	1 102.036	1.00 30.66
ATOM	1568			46.009	7.76	6 102.399	1.00 29.61
ATOM	1569 1570	CG PHE A 198		45.496	6.87	9 101.463	1.00 28.76
MOTA MOTA	1571	CD2 FHE A 198		45.426	7.82	2 103.657	1.00 28.43
ATOM	1572	CE1 PHE A 198		44.415		7 101.773	1.00 35.72
ATOM	1573	CE2 PHE A 198		44.340		4 103.970	
ATOM	1574	CZ PHE A 198		43.837			
ATOM	1575	C PHE A 198	1	46.121			
MOTA	15.76	O PHE A 198	}	46.892	11.34		
ATOM	1577	N PRO A 199		44.792			
ATOM	1578			44.100 43.313			
ATOM	1579			42.550			1.00 29.84
ATOM	1580			42.550		2 103.592	1.00 37.32
ATOM	1581			43.773	11.47	6 100.965	3 1.00 35.02
MOTA	1582		9	44.052	12.63	1 101.280	1.00 48.84
MOTA.	1583 1584			43.441		66 99.734	1 1.00 33.64
ATOM	٢٥٠						

ATOM	1585	CA	PHE A 200		43.418	12.179	98.718	1.00 28.12
					43.927	11.579	97.411	1.00 25.69
MOTA	1586	CB	PHE A 200					
MOTA	1587	CG	PHE A 200		45.226	10.833	97.561	1.00 27.33
MOTA	1588	CD1	PHE A 200		45.239	9.510	97.995	1.00 29.79
	1589	CD2	PHE A 200		46.439	11.461	97.302	1.00 24.38
MOTA						8.820	98.168	1.00 29.45
MOTA	1590	CE1	PHE A 200		46.444			
MOTA	1591	CE2	PHE A 200		47.651	10.782	97.473	1.00 31.41
ATOM	1592	CZ	PHE A 200		47.653	9.458	97.906	1.00 29.64
	1593	C	PHE A 200		42.042	12.795	98.518	1.00 26.15
MOTĄ							97.986	1.00 27.96
ATOM	1594	0 -	PHE A 200		41.935	13.889		
MOTA	1595	N	GLU A 201		41.002	12.101	98.979	1.00 28.52
ATOM	1596	CA	GLU A 201		39.614	12.534	98.806	1.00 35.04
ATOM	1597	CB	GLU A 201		38.695	11.316	98.810	1.00 33.61
			GLU A 201		39.087	10.240	97.838	1.00 37.80
MOTA	1598	CG			39.007		97.997	1.00 43.48
MOTA	1599	CD	GLU A 201		38.222	9.016		
ATOM	1600	OE1	GLU A 201		36.992	9.142	97.825	1.00 40.96
MOTA	1601	OE2	GLU A 201		38.7 7 2	7.937	98.298	1.00 44.17
ATOM	1602	С	GLU A 201		39.077	13.516	99.837	1.00 36:30
			GLU A 201		38.087	14.206	99.592	1.00 36.47
MOTA	1603	0						1.00 34.63
ATOM	1604	N	LYS A 202		39.693	13.552	101.007	
ATOM	1605	CA	LYS A 202		39.229	14.460	102.030	1.00 34.09
ATOM	1606	CB	LYS A 202		38.294	13.729	102.992	1.00 40.88
ATOM	1607	CG	LYS A 202		37.011	13.318	102.292	1.00 43.17
			LYS A 202		35.935	12.854	103.230	1.00 47.39
MOTA	1608	CD				12.663	102.469	1.30 47.74
ATOM	1609	CE	LYS A 202		34.628			
MOTA	1610	ΝZ	LYS A 202		33.504	12.290	103.378	1.00 53.56
ATOM	1611	С	LYS A 202		40.382	15.101		1.00 36.27
ATOM	1612	0	LYS A 202		41.520	14.666	102.613	1.00 28.06
	1613	N	GLY A 203		40.080	16.152	103.509	1.00 31.91
ATOM			GLY A 203		41.115	16.862	104.228	1.00 33.75
MOTA	1614	CA						1.00 30.54
MOTA	1615	С	GLY A 203		41.288	18.288	103.729	
ATOM	1616	0	GLY A 203		42.174	18.996	104.200	1.00 28.04
ATOM	1617	N	PHE A 204		40.458	18.713	102.778	1.00 29.93
ATOM	1618	CA	PHE A 204		40.557	20:.077	102.260	1.00 35.76
	1619	CB	PHE A 204		39.863	20.217	100.901	1.00 31.41
ATOM					40.498	19.416	99.803	1.00 31.06
ATOM	1620	CG	PHE A 204					1.00 35.66
MOTA	1621	CD1			40.169	18.075	99.618	1.00 33.00
ATOM	1622	CD2	PHE A 204		41.431	20.002	98.955	1.00 30.79
ATOM	1623	CE1	PHE A 204		40.761	17.329	98.597	1.00 35.20
ATOM	1624	CE2	PHE A 204		42.033	19.267	97.931	1.00 36.08
	1625	CZ	PHE A 204		41.697	17.928	97.751	1.00 36.54
ATOM					39.967	21.103	103.231	1.00 37.30
atom	1626	C	PHE A 204				104.040	1.00 33.56
ATOM	1627	0	PHE A 204	•	39.088	20.786		
ATOM	1628	N	LEU A 205		40.451	22.337	103.128	1.00 38.52
ATOM	1629	CA	LEU A 205		40.012	23.427	103.993	1.00 36.81
ATOM	1630	CB	LEU A 205		40.801	24.695	103.659	1.00 34.73
	1631	CG	LEU A 205		40.496	25.954	104.479	1.00 40.98
ATOM			LEU A 205		40.690	25.677		1.00 39.87
ATOM	1632					27.079		1.00 39.94
ATOM	1633		LEU A 205		41.415			
ATOM	1634	С	LEU A 205		38.520	23.728		1.00 36.58
ATOM	1635	0	LEU A 205		37.931	24.178		1.00 40.98
ATOM	1636	N	GLU A 206		37.909	23.477	102.774	1.00 36.07
					36.486	23.748		1.00 36.30
ATOM	1637	CA	GLU A 206		36.107	23.597		1.00 39.98
ATOM	1638	СВ	GLU A 206		_			1.00 48.04
ATOM	1639	CG	GLU A 206		36.890	24.473		
ATOM	1640	CD	GLU A 206		38.307	23.980		1.00 51.87
ATOM	1641		GLU A 206		39.146	23.993		1.00 50.32
	1642	OE2			38.581	23.569		1.00 56.69
ATOM					35.572			1.00 33.85
ATOM	1643	Ċ	GLU A 206					1.00 26.22
ATOM	1644	0	GLU A 206		34.433	23.213		1.00 31.68
ATOM	1645	N	GLU A 207		36.071	21.679		1.00 31.00
ATOM	1646	CA	GLU A 207		35.297	20.726		1.00 31.65
ATOM	1647	CB	GLU A 207		36.000	19.369		
ATOM	1648	CG	GLU A 207		36.044	18.741	103.179	1.00 33.80
	1649	CD	GLU A 207		37.182	17.751		1.00 33.85
ATOM			GLU A 207		37.487	17.025		
ATOM	1650	OEI	, ULU A 201		5			= -

MOTA MOTA	1651 1652	OE2 GLU A 207 C GLU A 207		37.760 35.182 36.009	17.688 101.916 21.229 106.033 20.894 106.887	1.00 35.48 1.00 35.06 1.00 34.16
ATOM ATOM	1653 1654	O GLU A 207 N ILE A 208		34.150	22.024 106.302	1.00 35.99
ATOM	1655	CA ILE A 208		33.968	22.604 107.634	1.00 38.96
MOTA	1656	CB ILE A 208		33.737	24.134 107.529	1.00 42.74 1.00 48.29
MOTA	1657	CG2_ILE A 208	•	33.717	24.762 108.914 24.795 106.700	1.00 40.34
MOTA	1658	CG1 ILE A 208		34.841 36.207	24.758 107.335	1.00 46.23
MOTA	1659 1660	CD1 ILÉ A 208 C ILE A 208		32.921	21.998 108.452	1.00 38.32
ATOM ATOM	1661	O ILE A 208		32.558	22.434 109.571	1.00 40.08
ATOM	1662	N GLY A 209		32.142	20.997.107.901	1.00 34.36
MOTA	1663	CA GLY A 209		31.047	20.374 108.620	1.00 33.32 1.00 37.87
MOTA	1664	C GLY A 209		29.699	20.673 107.993 21.581 107.173	1.00 37.87
MOTA	1665	O GLY A 209 N GLU A 210		29.579 28.676	19.917 108.380	1.00 37.38
MOTA	1666 1667	N GLU A 210 CA GLU A 210		27.337	20.118 107.831	1.00 42.34
ATOM ATOM	1668	CB GLU A 210		27.008	19.012 106.823	1.00 42.73
ATOM	1669	CG GLU A 210		26.860	17.636 107.460	1.00 47.38
MOTA	1670	CD GLU A 210		26.633	16.532 106.443 15.379 106.860	1.00 52.68 1.00 50.59
MOTA	1671	OE1 GLU A 210		26.385 26.711	16.810 105.226	1.00 53.78
MOTA	1672	OE2 GLU A 210 C GLU A 210		26.711	20.114 108.938	1.00 42.90
MOTA MOTA	1673 1674	C GLU A 210 O GLU A 210		26.516	19.577 110.022	1.00 45.94
ATOM	1675	N GLY A 211		25.130	20.702 108.654	1.00 43.16
ATOM	1676	CA GLY A 211		24.068	20.751 109.642	1.00 43.98 1.00 45.01
MOTA	1677	C GLY A 211		24.514 25.186	21.450 110.911 22.479 110.858	1.00 48.15
MOTA	1678	O GLY A 211 N LYS A 212		24.145	20.896 112.059	1.00 41.63
MOTA	1679 1680	N LYS A 212 CA LYS A 212		24.528	21.495 113.328	1.00 45.07
MOTA MOTA	1681	CB LYS A 212		23.913	20.715 114.490	1.00 46.59
ATOM	1682	CG LYS A 212		22.386	20.591 114.462	1.00 55.31 1.00 57.42
MOTA	1683	CD LYS A 212		21.651	21.945 114.481 22.696 113.151	1.00 57.42
MOTA	1684	CE LYS A 212		21.749 21.051	24.017 113.178	1.00 57.43
ATOM	1685 1686	NZ LYS A 212 C LYS A 212		26.046	21.513 113.469	1.00 42.08
MOTA ATOM	1687	O LYS A 212		26.598	22.326 114.207	1.00 40.03
ATOM	1688	N GLY A 213		26.713	20.615 112.751	1.00 39.51 1.00 40.11
MOTA	1689	CA GLY A 213		28.163 28.888	20.538 112.817 21.519 111.916	1.00 38.25
MOTA	1690	C GLY A 213 O GLY A 213		30.122	21.575 111.913	1.00 34.70
ATOM	1691 1692	O GLY A 213 N LYS A 214		28.131	22.295 111:143	1.00 37.31
MOTA MOTA	1693	CA LYS A 214		28.736	23.274 110.250	
ATOM	1694	CB LYS A 214		27.656	24.017 109.463	1.00 44.69 1.00 44.53
ATOM	1695	CG LYS A 214		28.189	25.030 108.461 25.704 107.720	
MOTA	1696	CD LY! A 214		27.047 27.553	26.759 106.754	
MOTA	1697 1698	CE LY. A 214 NZ LYL A 214		28.453	26.183 105.717	1.00 57.45
MOTA MOTA	1699	C LYS A 214		29.547	24.259 111.085	1.00 40.16
ATOM	1700	O LYS A 214		29.002	24.963 111.933	1.00 37.92
ATOM	1701	N GLY A 215		30.851	24.295 110.846 25.183 111.593	
MOTA	1702	CA GLY A 215		31.716 32.431		
MOTA	1703	C GLY A 215 O GLY A 215		33.216	25.039 ⁻ 113.454	1.00 33.76
MOTA	1704 1705	O GLY A 215 N TYR A 216		32.168	23.153 112.837	1.00 34.61
MOTA MOTA	1705			32.816	22.378 113.885	1.00 35.00
ATOM	1707	CB TYR A 216		31.763	21.683 114.75	3 1.00 36.19 7 1.00 36.68
ATOM	1708	CG TYR A 216		30.928		
MOTA	1709			29.961 29.249		1 1.00 40.89
ATOM	1710 1711			31.163	22.869 116.91	1.00 41.50
MOTA MOTA	1712			30.459	.23.834 117.63	4 1.00 40.69
ATOM	1713	CZ TYR A 216		29.505		
ATOM	1714	OH TYR A 216		28.816		
ATOM	1715			33.877 34.263		
ATOM	1716	O TYR A 216		J-5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	201300	

3 mov4	1717	N	N CNI	227	34.343	21 580	112.170	1.00 29.90
ATOM	1717	N	ASN A		35.398		111.606	1.00 30.02
ATOM	1718	CA	ASN A		34.833		110.615	1.00 26.46
ATOM	1719	CE		_	35.897		110.105	1.00 30.13
ATOM	1720	CG	ASN A		36.558		109.097	1.00 29.80
ATOM	1721		ASN A ASN A		36.094		110.831	1.00 19.92
ATOM	1722		ASN A		36.378		110.915	1.00 30.23
ATOM	1723	C			35.983		110.080	1.00 27.88
ATOM	1724	0	ASN A		37.655		111.271	1.00 29.45
MOTA	1725	И	LEU A		38.670		110.698	1.00 28.76
MOTA	1726		LEU A		39.160		111.753	1.00 29.02
MOTA	1727	CB			39.513.	24.867	111.307	1.00 34.69
ATOM	1728	CG	LEU A		40.432		112.367	1.00 32.93
MOTA	1729		LEU A		40.197	24.873	109.954	1.00 30.69
ATOM	1730	C D2	LEU A		39.870	21.657	110.207	1.00 26.65
MOTA	1731 1732	0	LEU A		40.527		110.999	1.00 25.25
ATOM ATOM	1733	Ŋ	ASN A		40.151	21.752	108.909	1.00 25.21
ATOM	1734	CA	ASN A		41.287	21.069	108.294	1.00 21.91
ATOM	1735	CB	ASN A		40.875	20.314	107.018	1.00 23.69
ATOM	1736	CG	ASN A		39.972	19.144	107.298	1.00 27.88
MOTA	1737		ASN A		40.153		108.289	1.00 29.28
ATOM	1738		ASN A		39.018	18.900	106.407	1.00 24.48
ATOM	1739	C	ASN A		42.355	22.074	107.906	1.00 23.46
ATOM	1740	ō	ASN A		42.059	23.073	107.259	1.00 28.17
ATOM	1741	N	ILE A		43.595	21.804	108.287	1.00 23.90
ATOM	1742	CA	ILE A		44.702		107.945	1.00 23.22
ATOM	1743	CB	ILE A		45.468		109.212	1.00 28.73
MOTA	1744	CG2	ILE A	220	46.601		108.831	1.00 26.01
MOTA	1745	CG1	ILE A		44.502		110.212	1.00 26.36
MOTA	1746	CD1	ILE A	220	43.771		109.688	1.00 25.74
MOTA	1747	С	ILE A	220	45.669		107.018	1.00 25.29
ATOM	1748	0	ILE A		46.631		107.477	1.00 20.44
ATOM	1749	N	PRO A		45.396		105.703	1.00 26.34
MOTA	1750	CD	PRO A		44.234		104.999	1.00 28.22
ATOM	1751	CA	PRO A		46.271	21.234	104.747	1.00 26.92 1.00 27.81
ATOM	1752	CB	PRO A		45.454	21.279		1.00 27.81
MOTA	1753	CG	PRO A		44.774 47.595	22.622	103.582 104.625	1.00 27.45
MOTA	1754	C	PRO A		47.593	23.199	104.623	1.00 31.21
ATOM	1755	0	PRO A LEU A		48.704	21.242	104.703	1.00 26.01
MOTA	1756 1757	N CA	LEU A		50.038		104.640	1.00 26.41
MOTA MOTA	1758	CB	LEU A		50.726		105.997	1.00 26.12
ATOM	1759	CG	LEU A		49.960	22.322	107.150	1.00 27.67
ATOM	1760	CDI			50.531	21.899	108.497	1.00 30.97
ATOM	1761	CD2			50.024	23.839	106.985	1.00 31.59
ATOM	1762	c	LEU A		50.911	21.286	103.504	1.00 28.97
ATOM	1763	0	LEU A		50.784	20.128	103.117	1.00 27.95
ATOM	1764	N	PRO A	223	51.821		102.964	1.00 31.52
ATOM	1765	CD	PRO A		52.059	23.518	103.358	1.00 29.08
ATCM	1766	CA	PRO A		52.727	21.753	101.865	1.00 29.93
ATOM	1767	CB	PRO A		53.265		101.428	1.00 29.16
MOTA	1768	CG	PRO A		53.458		102.779	1.00 25.86
MOTA	1769	C	PRO A		53.862		102.206	1.00 33.62
MOTA	1770	Ō	PRO A	223	54.179		103.376	1.00 26.55
MOTA	1771	N	LYS A		54.479		101.153	1.00 34.00
MOTA	1772	CA	LYS A		55.595	19.320		1.00 32.88
MOTA	1773	CB	LYS A		55.938	18.767		1.00 36.31
ATOM	1774	CG	LYS A		54.761	18.204 17.998		1.00 45.23
ATOM	1775	CD	LYS A	224	55.150 53.989	17.478		1.00 47.90
ATOM	1776	CE	LYS A		54.331	17.441		1.00 46.60
ATCM	1777	NZ	LYS A LYS A		56.317	20.054		1.00 29.43
ATOM	1778 1779	C ၁	LYS A	224	56.933	21.270	101.640	1.00 24.10
ATOM	1780	N	GLY A		57.735	19.305	102.403	1.00 25.00
ATOM ATOM	1781	CA	GLY A		58.947	19.896	102.942	1.00 26.20
ATOM	1782	C	GLY A	225	58.727	20.792	104.154	1.00 29.44
ALUM		_		-	_			

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1841 CD2 LEU A 232 1842 C LEU A 232	59.610 21.562 104.528 1.00 29.09 57.560 20.679 104.777 1.00 24.26 57.212 21.488 105.951 1.00 23.23 55.930 20.925 106.579 1.00 28.28 54.036 20.933 108.226 1.00 27.49 58.302 20.450 107.299 1.00 24.79 58.902 20.450 107.299 1.00 24.79 58.664 22.674 107.548 1.00 24.89 60.751 23.823 108.334 1.00 24.89 60.751 23.823 108.334 1.00 24.89 60.751 23.823 108.334 1.00 24.89 60.751 23.823 108.334 1.00 31.62 59.986 25.632 109.336 1.00 31.62 59.976 229.957 109.960 1.00 23.16 57.873 23.206 110.065 1.00 23.16
ATOM ATOM	1838 CB LEU A 232 1839 CG LEU A 232	56.176 24.372 116.420 1.00 28.11 57 440 24.783 117.162 1.00 27.32
ATOM	1841 CD2 LEU A 232	55.268 23.540 117.328 1.00 27.87 53.371 26.542 114.800 1.00 26.98
ATOM ATOM	1843 O LEU A 232	52.449 26.866 115.544 1.00 23.34
ATOM	1844 N PHE A 233	52.950 28.426 113.312 1.00 28.13
ATOM ATOM	1846 CB PHE A 233	53.542 29.029 112.029 1.00 30.77
ATOM	1847 CG PHE A 233	52.719 30.151 111.448 1.00 29.65 52.803 31.441 111.962 1.00 32.80
ATOM		J2.003 J2.442

ATOM	1849	CD2	PHE A	273		51.825	29.903	110.412	1.00 31.59
						52.008		111.452	1.00 33.90
ATOM	1850	CE1	PHE A						
ATOM	1851	CE2	PHE A	233		51.022	30.924	109.895	1.00 32.47
MOTA	1852	CZ	PHE A	233		51.114	32.208	110.415	1.00 32.50
			PHE A			51.510		113.031	1.00 31.62
MOTA	1853	C							1.00 25.88
MOTA	1854	0	PHE A	233		50.553		113.532	
ATOM	1855	N	ALA A	234		51.370	26.955	112.215	1.00 28.12
			ALA A			50.056	26.436	111.853	1.00 25.68
MOTA	1856	CA							1.00 20.08
ATOM	1857	CB.	ALA A			50.195	25.279	110.864	
ATOM	1858	C	ALA A	234		49.304	25.969	113.089	1.00 25.17
ATOM	1859	0	ALA A	234		48.114	26.228	113.234	1.00 25.21
						50.002	25.285	113.987	1.00 28.18
MOTA	1860	N	LEU A					- +	
MOTA	1861	CA	LEU A	235		49.367	24.781	115.195	1.00 33.70
MOTA	1862	CB	LEU A	235		50.356	23.964	116.026	1.00 32.70
	1863	CG	LEU A			49.772	22.788	116.820	1.00 36.89
MOTA						50.634	22.545	118.052	1.00 31.37
MOTA	1864		LEU A						1.00 31.47
ATOM	1865	CD2	LEU A	235		48.344	23.072	117.231	
MOTA	1866	С	LEU A	235		48.841	25.925	116.062	1.00 33.38
	1867	Ō	LEU A			47.673	25.926	116.455	1.00 28.13
MOTA						49.710	26.888	116.362	1.00 34.02
MOTA	1868	N	GLU A						
MOTA	18,69	CA	GLU A			49.336		117.199	1.00 37.30
MOTA	1870	CB	GLU A	236		50.528	28.972	117.400	1.00 41.51
		CG	GLU A			51.675	28.356	118.188	1.00 49.54
MOTA	1871					52.811		118.451	1.00 55.02
ATOM	1872	CD		236		_	29.334		
ATOM	1873	OE1	GLU A	236		53.781	28.947	119.140	1.00 56.19
ATOM	1874	OE2	GLU A	236		52.735	30.486	117.968	1.00 54.84
			GLU A			48.163	28.803	116.638	1.00 33.98
MOTA	1875	С							1.00 37.01
MOTA	1876	0	GLU A		-	47.211	29.098	117.362	
ATOM	1877	N	LYS A	237		48.223	29.137	115.354	1.00 33.94
ATOM	1878	CA	LYS A			47.140	29.888	114.726	1.00 33.10
			LYS A			47.505	30.244	113.281	1.00 36.08
ATOM	1879	CB							1.00 33.62
ATOM	1880	CG	LYS A			48.695	31.186	113.165	
ATOM	1881	CD	LYS A	237		48.395	32.508	113.856	1.00 37.99
ATOM	1882	CE	LYS A	237		49.569	33:471	113.762	1.00 45.24
			LYS A			49.285	34.737	114.500	1.00 43.49
ATOM	1883	NZ							1.00 31.40
ATOM	1884	С	LYS A			45.820	29.128	114.751	
ATOM '	1885	0	LYS A	237		44.793	29.680	115.131	1.00 31.67
ATOM	1886	N	SER A	238		45.841	27.861	114.354	1.00 28.72
			SER A			44.610	27.080	114.335	1.00 31.74
ATOM	1887	CA					25.720		1.00 28.90
ATOM .	1888	CB	SER A			44.834			
ATOM	1889	OG	SER A	238		45.760		114.372	1.00 25.18
ATOM	1890	С	SER A	238		44.041	26.891	115.740	1.00 33.23
	1891	ō	SER A			42.823	26.875	115.916	1.00 34.79
MOTA						44.907	26.742		1.00 35.27
MOTA	1892	N	LEU A						
MOTA	1893	CA	LEU A			44.413	26.5 87		
MOTA	1894	CB	LEU A	239		45.554	26.307	119.090	1.00 38.58
		CG	LEU A			46.176	24.907	119.038	1.00 39.74
MOTA	1895	051	LEU A			47.276	24 797	120.075	1.00 35.82
ATOM	1896								1.00 34.93
ATOM	1897	CD2	LEU A			45.109		119.301	
MOTA	1898	С	LEU A	239		43.670		118.521	1.00 39.09
ATOM	1899	0	LEU A			42.628	27.782	119.174	1.00 35.50
						44.202		118.131	1.00 39.27
MOTA	1900	N	GLU A						1.00 40.15
ATOM	1901	CA	GLU A	240		43.561		118.450	
ATOM	. 1902	CB	GLU A	240		44.366		117.883	1.00 40.42
	1903	CG	GLU A			45.661	31.747	118.602	1.00 43.91
MOTA						46.407	32.884		1.00 49.31
ATOM	1904	CD	GLU A				22.009		1.00 49.00
MOTA	1905	0E1	GLU A	240		45.772	33.925	117.665	
ATOM	1906	OE2	GLU A	240		47.624	32.745	117.705	1.00 54.05
	1907	c	GLU A			42.165	30.312	117.849	1.00 39.58
ATOM						41.224	30 822	118.455	1.00 40.99
ATOM	1908	0	GLU A				20.022	116.645	1.00 35.70
ATCM	1909	N	ILE A	241		42.039	9./64	110.045	
ATOM	1910	CA	ILE A	241		40.754	29.726	115.964	1.00 38.23
	1911	CB	ILE A			40.904	29.150	114.546	1.00 37.55
ATOM						39.535	29 005	113.895	1.00 37.30
atom	1912	CG2					20.000	113.724	1.00 38.36
·ATOM	1913	CG1				41.832	30.048	115./24	
ATOM	1914	CD1	ILE A	241		42.106	29.541	112.320	1.00 36.15

ATOM ATOM ATOM	1915 C ILE A 241 1916 C ILE A 241 1917 N VAL A 242	39.751 28.881 116.737 1.00 37.31 38.591 29.264 116.884 1.00 37.91 40.203 27.732 117.231 1.00 37.07 39.336 26.832 117.981 1.00 38.35
ATOM	1918 CA VAL A 242	33.550 20.655 2. 650 3.75 50
MOTA	1919 CB VAL A 242	40.025
ATOM	1920 CG1 VAL A 242	33.120 21.301 1.00 1.00 20 31
ATOM	1921 CG2 VAL A 242	40.50
ATOM	1922 C VAL A 242	30.330 2.1122
ATOM	1923 O VAL A 242	
ATOM	1924 N LYS A 243	33.303 23.000 = 1 00 40 74
MOTA	1925 CA LYS A 243 ·	39.001 20.031 ===
ATOM	1926 CB LYS A 243	40.545 25.525 1.00 50.00
ATOM	1927 CG LYS A 243	41.000 20.000 ===
ATOM	1928 CD LYS A 243	41.250 20.250 20.
MOTA	1929 CE LYS A 243	41.054 29.436 124.783 1.00 59.53 40.448 29.193 126.127 1.00 57.91
MOTA	1930 NZ LYS A 243	38.559 29.705 121.260 1.00 51.67
MOTA	1931 C LYS A 243	37 815 29 871 122.226 1.00 52.84
MOTA	1932 O LYS A 243	39 451 30 410 120.140 1.00 53.77
MOTA	1933 N GLU A 244	37 460 31.471 120.004 1.00 54.74
ATOM	1934 CA GLU A 244 1935 CB GLU A 244	37 954 32 497 118.986 1.00 55.15
MOTA		37 068 33.717 118.865 1.00 60.63
MOTA		37 602 34.714 117.868 1.00 65.87
ATOM		38.746 35.181 118.053 1.00 70.36
ATOM		36.879 35.031 116.900 1.00 67.09
ATOM	1939 OE2 GLU A 244 1940 C GLU A 244	36.051 31.025 119.626 1.00 52.65
ATOM	1941 C GLU A 244	35.127 31.838 119.606 1.00 55.59
MOTA	1942 N VAL A 245	35.869 29.745 119.332 1.00 50.57
MOTA MOTA	1943 CA VAL A 245	34.546 29.269 118.947 1.00 45.75
ATOM	1944 CB VAL A 245	34.475 29.081 117.409 1.00 46.91
MOTA	1945 CG1 VAL A 245	33.085 28.634 116.986 1.00 52.62 34.825 30.389 116.716 1.00 48.34
ATOM	1946 CG2 VAL A 245	34.023 30.000 642 67
ATOM	1947 C VAL A 245	34.130 27.300 1 00 43 63
ATOM	1948 0 VAL A 245	33.021 27.120
ATOM	1949 N PHE A 246	33.001
MOTA	1950 CA PHE A 246	34.662 26.168 121.139 1.00 37.47 35.106 24.991 120.257 1.00 37.00
MOTA	1951 CB PHE A 246	34.450 23.685 120.604 1.00 33.22
MOTA	1952 CG PHE A 246	33 111 23 467 120.302 1.00 33.93
ATOM	1953 CD1 PHE A 246 1954 CD2 PHE A 246	35.168 22.674 121.234 1.00 32.13
MOTA		32 493 22.260 120.621 1.00 37.75
ATOM	246	34.561 21.459 121.561 1.00 35.92
MOTA	1956 CE2 PHE A 246 1957 CZ PHE A 246	33.217 21.252 121.251 1.00 36.30
MOTA MOTA	1958 C PHE A 246	35.322 26.065 122.509 1.00 38.93
ATOM	1959 O PHE A 246	36.546 26.158 122.630 1.00 40.66 34.500 25.870 123.537 1.00 38.59
MOTA	1960 N GLU A 247	34.300 3.00 44.60
ATOM	1961 CA GLU A 247	34.3.0 12.00 000 1 00 47 07
ATOM	1962 CB GLU A 247	39.130
ATOM	1963 CG GLU A 247	33.101 27.200
ATOM	1964 CD GLU A 247	31.944 20.000 100 61 85
ATOM	1965 OE1 GLU A 247	30 822 27 094 125.083 1.00 64.59
MOTA	1966 OE2 GLU A 247	34 774 24 269 125.285 1.00 39.40
ATOM	1967 C GLU A 247 1968 O GLU A 247	33 727 23.879 125.794 1.00 39.91
ATOM		35 792 23.442 125.041 1.00 38.64
MOTA		37 101 23.817 124.483 1.00 33.25
ATOM		35.769 22.006 125.316 1.00 35.84
ATOM	1971 CA PRO A 248 1972 CB PRO A 248	37 047 21.531 124.648 1.00 36.05
ATOM	1971 CS PRO A 248	37.970 22.687 124.982 1.00 34.21
ATOM	1974 C PRO A 248	35.736 21.611 126.779 1.00 33.94
ATOM ATOM	1975 3 PRO A 248	30.443
ATOM	1976 :: GLU A 249	
ATOM	1977 CA GLU A 249	J9,094 20120
MOTA	1978 CB GLU A 249	33.324 13.302
ATOM	1979 CG GLU A 249	32.284 20.212 128.564 1.00 35.98 31.026 19.388 128.668 1.00 40.52
ATCM		31.020 19.500 225.500

ATOM	1981	OFI	GLU A	249	30.8	17 18 500	127.804	1.00 40.27
ATOM	1982	-	GLU A		30.2			1.00 38.57
ATOM	1983	C	GLU A		35.9			1.00 32.30
ATOM	1984	0	GLU A		36.4			1.00 28.51
ATOM	1985	N	VAL A		36.4			1.00 33.74
ATOM-	1986	CA	VAL A		37.5		3 127.494	1.00 29.31
ATOM	1987	CB	VAL A		36.9		127.926	1.00 29.85
ATOM	1988		VAL A		35.9		126.958	1.00 24.36
	1989		VAL A		38.1		127.978	1.00 25.60
ATOM	1990		VAL A		38.0		126.076	1.00 29.30
ATOM	1991	0	VAL A		37.3		125.114	1.00 24.46
ATOM ATOM	1992	N	TYR A		39.3		125.930	1.00 27.96
MOTA	1993	CA	TYR A		39.8		3 124.585	1.00 30.06
MOTA	1994	CB	TYR A		40.5		5 124.165	1.00 25.89
ATOM	1995	CG	TYR A		41.9		124.692	1.00 29.90
ATOM	1996		TYR A		43.0		124.029	1.00 26.02
ATOM	1997		TYR A		44.3		124.507	1.00 29.20
ATOM	1998	CD2	TYR A		42.2		7 125.849	1.00 31.96
ATOM	1999	CE2	TYR A		43.5		1 126.338	1.00 31.54
ATOM	2000	cz	TYR A		44.6		4 125.664	1.00 31.46
ATOM	2001	ОН	TYR A		45.8	94 18.85	4 126.152	1.00 29.69
MOTA	2002	C	TYR A	251	40.8	01 15.73	1 124.451	1.00 27.56
ATOM	2003	0	TYR A	251	41.3	82 15.27	3 125.436	1.00 28.23
ATOM	2004	N	LEU A		40.9	08 15.22	2 123.227	1.00 23.52
ATOM	2005	CA	LEU A	252	. 41.8	06 14.11	7 122.919	1.00 26.53
ATOM	2006	CB	LEU A	252	41.0	57 12.93	0 122.293	1.00 25.74
ATOM	2007	CG	LEU A	252	40.2			1.00 28.49
ATOM	2008	CD1	LEU A	252	39.1	22 12.75		1.00 27.67
ATOM	2009	CD2	LEU A		39.7	27 10.83	5 122.414	1.00 32.00
ATOM	2010	С	LEU A		42.8		8 121.932	1.00 27.53
MOTA	2011	. 0	LEU A		42.5			1.00 24.42
MOTA	2012	N	LEU A		44.0			1.00 24.60
MOTA	2013	CA	LEU A		45.1			1.00 25.04
ATOM	2014	CB		253.				1.00 22.48
MOTA	2015	CG	LEU A		47.4			1.00 21.05
ATOM	2016		LEU A		47.1			1.00 23.05 1.00 16.40
ATOM	2017		LEU A		48.3			1.00 18.40
MOTA	2018	C	LEU A		45.8 46.3		6 121.303	1.00 23.33
ATOM	2019	0	LEU A		45.8			1.00 22.33
ATOM	2020 2021	N CA	GLN A		46.4		0 118.552	1.00 19.84
MOTA	2021	CB	GLN A		45.5		1 117.348	1.00 23.09
ATOM ATOM	2023	CG	GLN A		46.0		8 115.963	1.00 35.49
ATOM	2024	CD	GLN A		47.0			1.00 31.26
ATOM	2025	OE1			46.7			1.00 33.69
TOM	2026		GLN A		48.3			1.00 31.02
TOM	2027	С	GLN A		47.8		6 118.153	1.00 22.46
. rom	2028	ō	GLN A	254	48.0		9 117.478	1.00 17.56.
ATOM	2029	N	LEU A		48.8		1 118.590	1.00 17.64
ATOM	2030	CA	LEU 2		50.2	13 12.07	9 118.383	1.00 17.04
ATOM	2031	CB			50.8		6 119.750 [.]	
ATOM	2032	CG	LEU 3	255	50.2		6 120.670	1.00 25.02
MOTA	2033	CD1	LEU ?	255	50.7		6 122.107	1.00 21.99
ATOM	2034	CD2	LEU ?		50.6		8 120.149	1.00 18.30
MOTA	2035	С	LEU A	255	51.0		9 117.476	1.00 21.34
ATOM	2036	0	LEU A		52.0		5 117.875	1.00 18.73
ATOM	2037	N	GLY 3		50.5		8 116.259	1.00 22.75
ATOM	2038	CA	GLY A		51.2		3 115.330	1.00 24.09
MOTA	2039	C	GLY A		52.6		1 115.126	1.00 24.27
ATOM	2040	0	GLY :		52.8		5 115.134	1.00 19.15
ATOM	2041	N	THR 3		53.6	9.90	3 114.948	1.00 24.14
MOTA	2042	CA	THR A	257	55.0		0 114.765	1.00 21.32 1.00 17.24
MOTA	2043	CB	THR A	257	56.0		2 115.511	1.00 17.24
ATOM	2044	0G1	THR A	3 25/	56.0 55.7	709 8.24	8 115.004 2 117.016	1.00 17.48
ATOM	2045	CG2	THR A	2 22/	55.4 55.4	103 10 E2	7 113.290	1.00 22.98
ATOM	2046	С	Ink	. 43/	55.4	10.32	,0	2.00 02.00

2	MOT	2047	O THR A 25		56.517	10.941	112.974 112.379	1.00 20.39
	MOT	2048	N ASP A 25		54.493 54.863	10.229	110.961	1.00 26.56
	MOT	2049 2050	CA ASP A 25 CB ASP A 25		53.849	9.496	110.056	1.00 25.06
	TOM TOM	2051	CG ASP A 25	8	52.415		110.252	1.00 29.08
	ATOM	2052	C ASP A 25	8	55.222		110.364	1.00 27.87 1.00 25.61
	MOTA	2053	O ASP A 25	8	55.756	11.661 11.070	109.254 110.742	1.00 29.86
	MOTA	2054	OD1 ASP A 25	8	52.173 51.513		109.869	1.00 33.25
	MOTA	2055	OD2 ASP A 25 N PRO A 25	8 9	54.884	12.710	111.045	1.00 31.06
	ATOM ATOM	2056 2057	CD PRO A 25	9	54.019	12.928	112.220	1.00 28.59
	ATOM	2058	CA PRO A 25	9	55.268	14.006	110.469 111.296	1.00 30.95 1.00 35.06
	ATOM	2059	CB PRO A 25		54.447 54.418	14.993 14.320	111.236	1.00 35.26
	MOTA	2060	CG PRO A 25 C PRO A 25	.9 :0	56.790		110.583	1.00 29.06
	MOTA	2061 2062	C PRO A 25 O PRO A 25		57.300	15.251	110.044	1.00 29.70
	MOTA MOTA	2063	N LEU A 26	50	57.508	13.389	111.280	1.00 22.68 1.00 28.41
	ATOM	2064	CA LEU A 26		58.960	13.545 12.576	111.455 112.533	1.00 23.41
	MOTA	2065	CB LEU A 26	50	59.461 58.970	12.791	113.969	1.00 20.14
	ATOM	2066	CG LEU A 26 CD1 LEU A 26	50 50	59.352	11.599	114.826	1.00 22.83
	MOTA	2067 2068	CD2 LEU A 20	50	59.592	14.079	114.532	1.00 20.48
	MOTA MOTA	2069	C LEU A 2	50	59.770	13.344	110.160	1.00 27.95 1.00 27.03
	ATOM	2070	O LEU A 2		59.407	12:535	109.299 110.040	1.00 27.03
	MOTA	2071	N LEU A 2		60.874 61.742	14.010	108.865	1.00 26.56
	ATOM	2072 2073	CA LEU A 2		63.067	14.737	109.137	1.00 23.06
	MOTA MOTA	2074	CG LEU A 2		64.131	14.615	108.025	1.00 29.52 1.00 22.68
	MOTA	2075	CD1 LEU A 2	61	63.642	15.325 15.219	106.770 108.475	1.00 22.00
	MOTA	2076	CD2 LEU A 2		65.460 62.063	12.577	108.443	1.00 28.23
	ATOM	2077 2078	C LEU A 2 O LEU A 2		61.880	12.198	107.289	1.00 26.52
	MOTA MOTA	2079	N GLU A 2		62.539	11.787	109.397	1.00 28.70 1.00 31.76
	ATOM	.2080	CA GLU A 2	62	62.938	10.416	109.135	1.00 31.70
	MOTA	2081	CB GLU A 2		63.685 64.890	10.683	110.803	1.00 31.33
	MOTA	2082 2083	CG GLU A 2 CD GLU A 2		64.521	11.847	111.708	1.00 28.07
	ATOM ATOM	2084	OE1 GLU A 2	62	63.324	12.195	111.789	1.00 28.75 1.00 26.08
	ATOM	2085	OE2 GLU A 2	62	65.433	12.424	112.340 108.721	
	MOTA	2086	C GLU A 2	162	61.847 62.158	8.305	108.350	1.00 29.72
	ATOM	2087 2088	O GLU A 2 N ASP A 2	63	60.582	9.825	108.785	1.00 28.07
	ATOM ATOM	2089	CA ASP A 2	63	59.513		108.412	1.00 26.85 1.00 25.26
	ATOM	2090	CB ASP A 2	263	58.305		9 109.333 3 109.185	
	MOTA	2091		263	57.261 56.638	7.636	5 110.20°	1.00 29.91
	ATOM	2092		263 263	57.042	7.509	108.05	1.00 26.56
	MOTA MOTA	2093 2094		263	59.150	9.140	5 106.957	1.00 29.44 1.00 24.70
	ATOM	2095	O ASP A	263	58.740		7 106.594 1 106.130	
	MOTA	2096		264	59.303 59.031		9 104.696	1.00 33.89
	MOTA	2097 2098		264	59.576		8 103.935	1.00 40.44
	MOTA MOTA	2099		264	61.059	6.77	1 104.092	
	MOTA	2100	CD1 TYR A	264	61.565	6.08	7 105.199 6 105.351	
	MOTA	2101		264 264	62.933 61.960		2 103.140	1.00 53.79
	ATOM	2102		264 264	63.329	7.03	8 103.282	1.00 56.61
	MOTA MOTA	2103 2104		264	63.809	6.35	4 104.388	1.00 56.22 1.00 55.90
	ATOM	2109	OH TYR A	264	65.161	6.14 8.39		
	ATOM	210		264	57.561 57.311	8.82	5 103.178	3 1.00 27.15
	ATOM			265	56.64	8.05	9 105.17	1.00 26.88
	ATOM		_	265	55.244	4 8.20	9 104.792	2 1.00 24.39
	MOTA MOTA		O CB LEU A	265	54.36		9 105.52° 4 105.16	
	ATOM	211	1 CG LEU A	265	54.663 53.46		6 105.50	
	MOTA	211	2 CD1 LEU A	203	55.40			

ATOM 2114 C	3.0034	2113	CD3	1 211 3 265	54.931	5.620 103.682	1.00 33.35
AROM 2115 O LEU À 265 53.457 9.796 104.979 1.00 21. AROM 2116 N SER À 266 55.501 10.622 104.959 1.00 23. AROM 2117 CA SER À 266 55.5084 12.011 105.008 1.00 25. AROM 2118 CB SER À 266 55.084 12.011 105.008 1.00 25. AROM 2120 C SER À 266 56.074 12.845 107.084 1.00 22. AROM 2121 O SER À 266 55.047 12.845 107.084 1.00 22. AROM 2121 O SER À 266 55.147 12.879 104.355 1.00 30. AROM 2121 N LYS À 267 55.31 13.985 103.757 1.00 31. AROM 2122 N LYS À 267 55.813 13.985 103.757 1.00 31. AROM 2123 CA LYS À 267 56.696 14.873 103.140 1.00 27. AROM 2124 CB LYS À 267 55.815 14.327 100.819 1.00 34. AROM 2125 CG LYS À 267 55.815 14.327 100.819 1.00 34. AROM 2126 CD LYS À 267 55.731 13.985 103.757 1.00 31. AROM 2127 CE LYS À 267 55.735 14.327 100.819 1.00 34. AROM 2128 NZ LYS À 267 55.735 12.376 99.524 1.00 31. AROM 2129 C LYS À 267 57.956 11.541 99.572 1.00 31. AROM 2129 C LYS À 267 57.956 11.541 99.572 1.00 31. AROM 2131 N PHE À 268 55.688 15.826 105.377 1.00 24. AROM 2131 N PHE À 268 55.688 15.826 105.377 1.00 24. AROM 2131 N PHE À 268 55.688 15.826 105.377 1.00 24. AROM 2131 CR PHE À 268 54.636 17.256 107.257 1.00 24. AROM 2133 CB PHE À 268 54.636 17.256 107.257 1.00 21. AROM 2136 CD2 PHE À 268 54.636 17.256 107.257 1.00 21. AROM 2137 CEI PHE À 268 55.631 17.221 108.216 1.00 25. AROM 2138 CE2 PHE À 268 55.357 17.728 107.954 1.00 25. AROM 2137 CEI PHE À 268 55.357 17.728 107.954 1.00 23. AROM 2140 C PHE À 268 55.357 17.728 107.954 1.00 23. AROM 2141 O PHE À 268 55.357 17.728 107.959 1.00 24. AROM 2140 C PHE À 268 55.357 17.278 107.959 1.00 24. AROM 2141 O PHE À 268 55.357 17.281 107.944 1.00 25. AROM 2141 C PHE À 268 55.357 17.281 107.944 1.00 25. AROM 2143 C A SN À 269 61.555 17.270 107.709 1.00 24. AROM 2144 C ASN À 269 61.55 17.257 106.702 1.00 21. AROM 2145 C G ASN À 269 61.56 17.988 11.50.301 1.00 23. AROM 2146 C D LEU À 270 55.888 17.397 110.043 1.00 24. AROM 2147 NDZ ASN À 269 61.392 17.533 105.317 1.00 23. AROM 2148 C ASN À 269 61.55 17.200 107.709 1.00 23. AROM 2150 C EU À 270 55.75 17.833 112.074 1.00 25. AROM 2151 C G							
ATOM 2116 N SER A 266 55.500 10.622 104.959 1.00 23.5 ATOM 2118 CB SER A 266 55.084 12.011 105.008 1.00 26.5 ATOM 2119 OG SER A 266 55.084 12.011 105.008 1.00 25.5 ATOM 2120 C SER A 266 56.074 12.845 107.084 1.00 25.5 ATOM 2121 O SER A 266 55.074 12.845 107.084 1.00 22.5 ATOM 2121 O SER A 266 55.074 12.845 107.084 1.00 22.5 ATOM 2122 N LYS A 267 55.731 13.985 103.757 1.00 31.5 ATOM 2122 CA LYS A 267 55.731 13.985 103.757 1.00 31.5 ATOM 2123 CA LYS A 267 55.6696 14.873 103.140 1.00 27.5 ATOM 2124 CB LYS A 267 55.6140 15.425 101.834 1.00 30.5 ATOM 2125 CG LYS A 267 55.6150 14.873 103.140 1.00 27.5 ATOM 2126 CG LYS A 267 55.815 14.327 100.819 1.00 34.5 ATOM 2127 CE LYS A 267 55.731 13.985 100.549 1.00 29.5 ATOM 2128 NZ LYS A 267 57.050 16.004 104.107 1.00 37.5 ATOM 2129 C LYS A 267 57.050 16.004 104.107 1.00 37.5 ATOM 2130 O LYS A 267 57.624 17.017 103.707 1.00 27.5 ATOM 2131 N PHE A 268 55.6688 15.826 105.377 1.00 27.5 ATOM 2132 CA PHE A 268 55.068 15.826 105.377 1.00 27.5 ATOM 2133 CB PHE A 268 55.043 17.256 107.257 1.00 27.5 ATOM 2135 CD1 PHE A 268 55.043 17.256 107.257 1.00 27.5 ATOM 2136 CD2 PHE A 268 55.045 17.7256 107.257 1.00 21.5 ATOM 2137 CE PHE A 268 55.045 17.806 106.011 1.00 25.5 ATOM 2138 CB2 PHE A 268 55.036 17.826 107.577 1.00 27.5 ATOM 2136 CD2 PHE A 268 55.036 17.826 107.577 1.00 27.5 ATOM 2137 CC PHE A 268 55.037 18.315 105.730 1.00 25.5 ATOM 2136 CG2 PHE A 268 55.036 17.826 107.757 1.00 21.5 ATOM 2137 CC PHE A 268 55.037 18.315 105.730 1.00 25.5 ATOM 2140 C PHE A 268 55.037 18.315 105.730 1.00 25.5 ATOM 2141 O PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2141 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2141 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2141 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2140 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2141 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2140 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2141 C PHE A 268 56.046 17.806 106.011 1.00 25.5 ATOM 2145 CD PHE A 268 56.046 17.806 106.001 10.00 25.5 ATOM 2146 CD PHE	ATOM						
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ATOM 2118 CB SER A 266	MOTA	2116	N	SER A 266	55.540	10.622 104.959	
ATOM 2118 CB SER A 266 56.074 12.845 107.084 1.00 25. ATOM 2120 C SER A 266 56.074 12.845 107.084 1.00 22. ATOM 2121 O SER A 266 56.147 12.879 104.355 1.00 30. ATOM 2122 N LYS A 267 55.731 13.985 103.757 1.00 31. ATOM 2123 CA LYS A 267 55.731 13.985 103.757 1.00 31. ATOM 2124 CB LYS A 267 55.731 13.985 103.757 1.00 31. ATOM 2125 CG LYS A 267 55.815 14.873 103.140 1.00 27. ATOM 2126 CD LYS A 267 55.815 14.873 103.140 1.00 27. ATOM 2125 CG LYS A 267 55.815 14.327 100.819 1.00 34. ATOM 2126 CD LYS A 267 55.815 14.327 100.819 1.00 34. ATOM 2127 CE LYS A 267 55.745 12.376 99.524 1.00 37. ATOM 2128 NZ LYS A 267 57.624 17.017 109.07 1.00 27. ATOM 2129 C LYS A 267 57.624 17.017 109.07 1.00 27. ATOM 2130 O LYS A 267 57.624 17.017 103.707 1.00 27. ATOM 2131 N PHE A 268 56.688 15.826 105.377 1.00 24. ATOM 2132 CA PHE A 268 56.688 15.826 105.377 1.00 24. ATOM 2133 CB PHE A 268 55.014 16.730 107.579 1.00 24. ATOM 2135 CDI PHE A 268 55.014 16.730 107.579 1.00 25. ATOM 2136 CD2 PHE A 268 55.037 17.831 107.257 1.00 21. ATOM 2137 CE1 PHE A 268 55.031 17.2251 108.216 1.00 28. ATOM 2138 CE2 PHE A 268 55.3077 18.315 105.730 1.00 25. ATOM 2138 CB2 PHE A 268 55.3077 18.315 105.730 1.00 25. ATOM 2138 CB2 PHE A 268 55.3077 18.315 105.730 1.00 25. ATOM 2136 CD2 PHE A 268 55.3077 18.315 105.730 1.00 25. ATOM 2137 CE1 PHE A 268 55.3077 18.315 105.730 1.00 25. ATOM 2140 N ASN A 269 61.555 17.270 107.09 1.00 20. ATOM 2141 C ASN A 269 61.556 17.293 107.994 1.00 28. ATOM 2142 N ASN A 269 61.556 17.293 107.994 1.00 28. ATOM 2143 CA SNN A 269 61.556 17.293 107.994 1.00 28. ATOM 2144 CB ASN A 269 61.556 17.293 107.994 1.00 25. ATOM 2145 CG ASN A 269 61.557 17.270 107.099 1.00 30. ATOM 2146 CB ASN A 269 61.557 17.270 107.099 1.00 30. ATOM 2147 ND2 ASN A 269 61.566 17.938 106.767 1.00 31. ATOM 2146 CB ASN A 269 61.556 17.293 107.099 1.00 25. ATOM 2147 ND2 ASN A 269 61.557 17.270 107.099 1.00 25. ATOM 2146 CB ASN A 269 61.557 17.270 107.099 1.00 25. ATOM 2147 ND2 ASN A 269 61.566 17.938 106.767 1.00 31. ATOM 2146 CB ASN A 269 61.569 17.998 11.00 2			$C\Delta$	SER. A 266	55.084	12.011 105.008	1.00 26.30
ATOM 2119 OG SER A 266							1.00 25.16
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ATOM 2121 O SER A 266 57.334 12.555 104.385 1.00 31.4 ATOM 2122 N LYS A 267 55.731 13.985 103.757 1.00 31.4 ATOM 2123 CA LYS A 267 55.6669 14.873 103.140 1.00 27.4 ATOM 2125 CG LYS A 267 55.6669 14.873 103.140 1.00 27.4 ATOM 2126 CD LYS A 267 55.810 15.425 101.834 1.00 30.4 ATOM 2127 CE LYS A 267 55.815 14.327 100.819 1.00 34.4 ATOM 2128 NZ LYS A 267 55.815 14.327 100.819 1.00 29.4 ATOM 2128 NZ LYS A 267 55.70.39 13.463 100.549 1.00 29.4 ATOM 2128 NZ LYS A 267 55.70.39 13.463 100.549 1.00 29.4 ATOM 2128 NZ LYS A 267 55.70.59 11.541 99.527 1.00 31.4 ATOM 2129 C LYS A 267 57.050 16.004 104.107 1.00 30.4 ATOM 2130 N PHE A 268 55.668 15.826 105.377 1.00 24.4 ATOM 2131 N PHE A 268 55.6014 16.730 107.579 1.00 24.4 ATOM 2132 CA PHE A 268 55.0014 16.730 107.579 1.00 24.4 ATOM 2133 CB PHE A 268 54.636 17.255 107.257 1.00 24.4 ATOM 2135 CD1 PHE A 268 54.636 17.256 107.257 1.00 24.4 ATOM 2136 CD2 PHE A 268 55.6014 17.221 108.216 1.00 28.4 ATOM 2137 CEI PHE A 268 55.631 17.221 108.216 1.00 28.4 ATOM 2138 CE2 PHE A 268 55.034 17.80 106.05.011 1.00 25.4 ATOM 2137 CEI PHE A 268 55.031 17.221 108.216 1.00 28.4 ATOM 2138 CE2 PHE A 268 55.051 17.227 108.21.4 ATOM 2139 CZ PHE A 268 55.051 17.227 108.216 1.00 28.4 ATOM 2140 C PHE A 268 58.707 18.315 105.730 1.00 23.4 ATOM 2141 O PHE A 268 58.707 18.315 105.730 1.00 23.4 ATOM 2142 N ASN A 269 65.55 17.728 107.944 1.00 25.4 ATOM 2144 CB ASN A 269 66.555 17.7270 107.094 1.00 28.4 ATOM 2145 CA ASN A 269 66.555 17.728 107.944 1.00 25.4 ATOM 2146 CD ASN A 269 66.555 17.728 107.944 1.00 28.4 ATOM 2147 ND2 ASN A 269 66.755 17.738 106.792 1.00 31.4 ATOM 2148 C ASN A 269 66.756 17.788 106.792 1.00 33.4 ATOM 2149 C ASN A 269 66.756 17.788 106.792 1.00 33.4 ATOM 2141 C PHE A 268 58.710 16.392 17.513 105.317 1.00 35.4 ATOM 2150 C ASN A 269 66.756 17.788 106.792 1.00 31.4 ATOM 2151 CA LEU A 270 59.888 17.397 110.043 1.00 25.4 ATOM 2152 CB LEU A 270 59.988 17.397 110.043 1.00 26.4 ATOM 2153 CG LEU A 270 59.988 17.397 110.043 1.00 26.4 ATOM 2156 CD LEU A 270 59.988 17.397 110.043 1.00 26.4 ATOM 2							
ATOM 2122 N LYS A 267 55.731 13.985 103.757 1.00 31.4 ATOM 2124 CB LYS A 267 56.696 14.873 103.140 1.00 27.4 ATOM 2125 CG LYS A 267 55.815 14.327 100.819 1.00 34.4 ATOM 2126 CD LYS A 267 55.815 14.327 100.819 1.00 34.4 ATOM 2126 CD LYS A 267 55.815 14.327 100.819 1.00 34.4 ATOM 2127 CE LYS A 267 55.731 13.986 100.849 1.00 29.4 ATOM 2128 NZ LYS A 267 57.095 11.541 99.524 1.00 37.4 ATOM 2129 C LYS A 267 57.050 16.004 104.107 1.00 30.4 ATOM 2129 C LYS A 267 57.050 16.004 104.107 1.00 30.4 ATOM 2130 O LYS A 267 57.050 16.004 104.107 1.00 30.4 ATOM 2131 N PHE A 268 56.688 15.826 105.377 1.00 24.4 ATOM 2132 CA PHE A 268 56.088 15.826 105.377 1.00 24.4 ATOM 2133 CB PHE A 268 56.044 16.730 107.579 1.00 24.4 ATOM 2135 CD PHE A 268 54.636 17.256 107.257 1.00 24.4 ATOM 2135 CD PHE A 268 54.636 17.256 107.257 1.00 24.4 ATOM 2135 CD PHE A 268 54.636 17.256 107.257 1.00 24.4 ATOM 2135 CD PHE A 268 54.346 17.806 106.011 1.00 25.4 ATOM 2138 CE2 PHE A 268 54.346 17.806 106.011 1.00 25.4 ATOM 2138 CE2 PHE A 268 53.037 18.315 105.730 1.00 25.4 ATOM 2138 CE2 PHE A 268 53.077 18.315 105.730 1.00 25.4 ATOM 2138 CE2 PHE A 268 53.077 18.315 105.730 1.00 23.4 ATOM 2138 CE2 PHE A 268 53.077 18.315 105.730 1.00 23.4 ATOM 2134 CP PHE A 268 58.410 16.470 106.998 1.00 25.4 ATOM 2140 C PHE A 268 58.410 16.470 106.998 1.00 25.4 ATOM 2141 O PHE A 268 58.778 15.299 106.994 1.00 25.4 ATOM 2142 N N SAN A 269 60.555 17.270 107.709 1.00 30.4 ATOM 2144 CB ASN A 269 60.555 17.270 107.709 1.00 30.4 ATOM 2145 CB ASN A 269 60.555 17.270 107.709 1.00 30.4 ATOM 2145 CB ASN A 269 61.392 17.513 105.317 1.00 35.4 ATOM 2146 OD1 ASN A 269 61.609 18.665 179.38 106.767 1.00 31.4 ATOM 2145 CB ASN A 269 61.566 17.938 106.767 1.00 31.4 ATOM 2145 CB ASN A 269 61.566 17.938 106.767 1.00 31.4 ATOM 2154 CB ASN A 269 61.566 17.938 106.767 1.00 31.4 ATOM 2155 CD2 LEU A 270 59.888 17.397 110.043 1.00 25.4 ATOM 2156 CB ASN A 269 61.609 18.665 119.348 1.00 29.4 ATOM 2156 CB ASN A 269 61.609 18.665 119.348 110.00 29.4 ATOM 2156 CB ASN A 269 61.609 18.665 119.348 110.00 29.4	ATOM	2120	C				
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ATOM 2124 CB LYS A 267		2122	N	LYS A 267	55.731	13.985 103.757	1.00 31.56
ATOM 2124 CB LYS A 267			CA		56.696	14.873 103.140	1.00 27.65
ATOM 2125 CG LYS A 267 55.815 14.327 100.819 1.00 34. ATOM 2126 CD LYS A 267 57.039 13.463 100.549 1.00 29. ATOM 2127 CE LYS A 267 57.050 16.004 104.107 1.00 37. ATOM 2128 NZ LYS A 267 57.050 16.004 104.107 1.00 37. ATOM 2129 C LYS A 267 57.050 16.004 104.107 1.00 37. ATOM 2130 O LYS A 267 57.050 16.004 104.107 1.00 37. ATOM 2131 N PHE A 268 56.688 15.826 105.377 1.00 22. ATOM 2132 CA PHE A 268 57.009 16.808 106.412 1.00 25. ATOM 2133 CB PHE A 268 56.014 16.730 107.5779 1.00 24. ATOM 2134 CG PHE A 268 56.014 16.730 107.5779 1.00 24. ATOM 2135 CD1 PHE A 268 56.036 17.255 107.257 1.00 21. ATOM 2136 CD2 PHE A 268 53.631 17.221 108.216 1.00 28. ATOM 2137 CE1 PHE A 268 53.631 17.221 108.216 1.00 28. ATOM 2139 CZ PHE A 268 52.357 17.728 107.944 1.00 25. ATOM 2139 CZ PHE A 268 52.357 17.728 107.944 1.00 25. ATOM 2139 CZ PHE A 268 52.082 18.275 106.702 1.00 28. ATOM 2139 CZ PHE A 268 55.004 16.470 106.908 1.00 25. ATOM 2140 C PHE A 268 55.004 106.404 10.00 25. ATOM 2141 O PHE A 268 58.410 16.470 106.908 1.00 25. ATOM 2142 N ASN A 269 59.194 17.490 107.230 1.00 25. ATOM 2143 CA ASN A 269 60.555 17.270 107.709 1.00 30. ATOM 2144 CB ASN A 269 61.566 17.938 106.767 1.00 31. ATOM 2144 CB ASN A 269 61.566 17.938 106.767 1.00 31. ATOM 2145 CG ASN A 269 61.369 17.513 105.317 1.00 32. ATOM 2146 ODI ASN A 269 61.369 18.665 109.348 1.00 28. ATOM 2147 ND2 ASN A 269 61.392 17.513 105.317 1.00 33. ATOM 2148 C ASN A 269 61.392 17.513 105.317 1.00 33. ATOM 2149 O ASN A 269 61.609 18.665 109.348 1.00 28. ATOM 2151 CA LEU A 270 59.888 17.9197 110.04405 1.00 33. ATOM 2149 O ASN A 269 61.609 18.665 109.348 1.00 28. ATOM 2152 CB LEU A 270 59.888 17.9197 110.0431 1.00 26. ATOM 2155 CC EEU A 270 59.858 17.939 118.406 1.00 26. ATOM 2156 CB LEU A 270 59.858 17.939 118.406 110.00 26. ATOM 2157 O LEU A 270 59.858 17.939 118.406 110.00 26. ATOM 2158 O LEU A 270 59.858 17.939 118.406 110.00 26. ATOM 2157 O LEU A 270 59.858 17.939 119.4031 1.00 26. ATOM 2158 N SER A 271 61.609 19.909 119.725 1.00 33. ATOM 2161 OS SER A 271 61.609 19.909 119.725 1.0						15 425 101.834	1.00 30.54
ATOM 2126 CD LYS A 267 57.039 13.463 100.549 1.00 29. ATOM 2127 CE LYS A 267 55.745 12.376 99.524 1.00 37. ATOM 2128 NZ LYS A 267 57.050 16.004 104.107 1.00 30. ATOM 2130 O LYS A 267 57.050 16.004 104.107 1.00 30. ATOM 2131 N PHE A 268 56.688 15.826 105.377 1.00 24. ATOM 2132 CA PHE A 268 56.688 15.826 105.377 1.00 24. ATOM 2133 CB PHE A 268 56.014 16.730 107.579 1.00 24. ATOM 2134 CG PHE A 268 54.636 17.256 107.257 1.00 24. ATOM 2135 CD PHE A 268 54.636 17.256 107.257 1.00 24. ATOM 2136 CD PHE A 268 54.636 17.256 107.257 1.00 24. ATOM 2137 CE PHE A 268 54.636 17.256 107.257 1.00 24. ATOM 2138 CE PHE A 268 53.031 17.221 108.216 1.00 28. ATOM 2138 CE PHE A 268 53.031 17.221 108.216 1.00 28. ATOM 2139 CC PHE A 268 53.077 18.315 105.730 1.00 23. ATOM 2130 CC PHE A 268 53.077 18.315 105.730 1.00 23. ATOM 2131 CE PHE A 268 58.778 15.299 106.994 1.00 28. ATOM 2140 C PHE A 268 58.778 15.299 106.994 1.00 28. ATOM 2141 O PHE A 268 58.778 15.299 106.994 1.00 28. ATOM 2143 CA ASN A 269 60.555 17.270 107.709 1.00 30. ATOM 2144 CB ASN A 269 61.392 17.513 105.317 1.00 31. ATOM 2143 CA ASN A 269 61.392 17.513 105.317 1.00 33. ATOM 2144 CB ASN A 269 61.392 17.513 105.317 1.00 33. ATOM 2146 ODI ASN A 269 61.392 17.843 109.110 1.00 33. ATOM 2147 ND2 ASN A 269 61.392 17.843 109.110 1.00 33. ATOM 2148 CA ASN A 269 61.392 17.513 105.317 1.00 35. ATOM 2149 O ASN A 269 61.392 17.513 105.317 1.00 35. ATOM 2150 N LEU A 270 59.888 17.397 110.043 1.00 29. ATOM 2151 CA LEU A 270 59.888 17.397 110.043 1.00 29. ATOM 2152 CB LEU A 270 59.888 17.397 110.043 1.00 29. ATOM 2154 CG ASN A 269 61.60 198.665 109.348 1.00 29. ATOM 2155 CD2 LEU A 270 59.888 17.397 110.043 1.00 29. ATOM 2156 CB SER A 271 61.469 15.159 111.406 1.00 26. ATOM 2157 CA LEU A 270 59.888 17.397 110.043 1.00 29. ATOM 2158 N SER A 271 61.275 17.896 113.420 1.00 29. ATOM 2159 CA SER A 271 61.459 18.460 114.846 1.00 24. ATOM 2160 CB SER A 271 61.459 18.661 110.00 23. ATOM 2161 OG SER A 271 61.459 18.661 110.00 23. ATOM 2167 CB SER A 271 61.459 18.661 110.00 31. ATOM 2168 CD SER							
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ATOM 2130 O LYS A 267		2129	С	LYS A 267	57.050	16.004 104.107	1.00 30.85
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ATOM 2153 CG LEU A 270 57.392 18.425 111.297 1.00 29. ATOM 2154 CD1 LEU A 270 56.177 18.494 112.222 1.00 28. ATOM 2155 CD2 LEU A 270 57.740 19.825 110.790 1.00 29. ATOM 2156 C LEU A 270 60.979 17.242 112.301 1.00 26. ATOM 2157 O LEU A 270 61.490 16.158 111.990 1.00 19. ATOM 2159 CA SER A 271 61.275 17.896 113.420 1.00 21. ATOM 2159 CA SER A 271 62.220 17.365 114.393 1.00 27. ATOM 2160 CB SER A 271 62.220 17.365 114.393 1.00 27. ATOM 2161 OG SER A 271 62.499 19.433 115.626 1.00 18. ATOM 2162 C SER A 271 61.454 16.868 115.618 1.00 23. ATOM 2163 O SER A 271 60.272 17.150 115.772 1.00 22. ATOM 2164 N ASN A 272 62.157 16.129 116.470 1.00 28. ATOM 2166 CB ASN A 272 62.157 16.129 116.470 1.00 28. ATOM 2166 CB ASN A 272 62.774 14.880 118.498 1.00 28. ATOM 2168 OD1 ASN A 272 62.774 14.880 118.498 1.00 28. ATOM 2169 ND2 ASN A 272 62.854 13.428 118.180 1.00 36. ATOM 2169 ND2 ASN A 272 62.854 13.428 118.180 1.00 36. ATOM 2170 C ASN A 272 61.67 16.695 118.661 1.00 31. ATOM 2171 O ASN A 272 61.167 16.695 118.661 1.00 37. ATOM 2172 N VAL A 273 62.032 17.693 118.804 1.00 31. ATOM 2174 CB VAL A 273 62.804 20.988 120.500 1.00 48. ATOM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48. ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42. ATOM 2177 C VAL A 273 64.198 18.914 120.381 1.00 42. ATOM 2177 C VAL A 273 64.198 18.914 120.381 1.00 42. ATOM 2177 C VAL A 273 64.198 18.914 120.381 1.00 30.					58.575	17.833 112.074	1.00 26.60
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ATOM 2170 C ASN A 272 61.167 16.695 118.661 1.00 31 ATOM 2171 O ASN A 272 60.090 16.618 119.261 1.00 27 ATOM 2172 N VAL A 273 62.032 17.693 118.804 1.00 31 ATOM 2173 CA VAL A 273 61.802 18.837 119.667 1.00 31 ATOM 2174 CB VAL A 273 63.069 19.709 119.725 1.00 35 ATOM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 31			ODI	ASN A 2/2		12.705 110.705	
ATOM 2171 O ASN A 272 60.090 16.618 119.261 1.00 27 ATOM 2172 N VAL A 273 62.032 17.693 118.804 1.00 31 ATOM 2173 CA VAL A 273 61.802 18.837 119.667 1.00 31 ATOM 2174 CB VAL A 273 63.069 19.709 119.725 1.00 35 ATOM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 31	ATOM	2169				12.707 111.319	
ATOM 2171 O ASN A 272 60.090 16.618 119.261 1.00 27 ATOM 2172 N VAL A 273 62.032 17.693 118.804 1.00 31 ATOM 2173 CA VAL A 273 61.802 18.837 119.667 1.00 31 ATOM 2174 CB VAL A 273 63.069 19.709 119.725 1.00 35 ATOM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30	ATOM	2170	С	ASN A 272		16.695 118.661	1.00 31.83
ATOM 2172 N VAL A 273 62.032 17.693 118.804 1.00 31 ATOM 2173 CA VAL A 273 61.802 18.837 119.667 1.00 31 ATOM 2174 CB VAL A 273 63.069 19.709 119.725 1.00 35 ATOM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 31			o	ASN A 272	60.090	16.618 119.261	1.00 27.50
ATCM 2173 CA VAL A 273 61.802 18.837 119.667 1.00 31 ATCM 2174 CB VAL A 273 63.069 19.709 119.725 1.00 35 ATCM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATCM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATCM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 ATCM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 ATCM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 31 4		2:72		VAL A 273	62.032	17.693 118.804	1.00 31.49
ATOM 2174 CB VAL A 273 63.069 19.709 119.725 1.00 35 ATOM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30		- 1 - 3		WAT. 2 273		18.837 119.667	1.00 31.58
ATCM 2175 CG1 VAL A 273 62.804 20.988 120.500 1.00 48 ATCM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATCM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30		2374		VAL 2 273		19.709 119.725	1.00 35.80
ATOM 2176 CG2 VAL A 273 64.198 18.914 120.381 1.00 42 ATOM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30 60.008 19.605 119.234 1.00 30 60.008 19.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.0000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.000 100 60.		_1/4				20 988 120 500	1.00 48.07
ATCM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30				VAL A 2/3		10 014 120 301	
STCM 2177 C VAL A 273 60.608 19.665 119.234 1.00 30	ATOM	2176		VAL A 2/3		10.514 120.501	1 00 30 13
		2177		VAL A 273		19.665 119.234	1.00 30.13
ATOM 11/0 U VAL A 2/0 35/0/2 20/1/ == 100	ATOM	2178	0	VAL A 273	59.872	20.174 120.072	1.00 31.44

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. most	2179	N	ALA A 274		60.405	19.800	117.929	1.00 24.15
MOTA	2180	CA	ALA A 274		59.258	20.558	117.455	1.00 26.27
MOTA		CB	ALA A 274		59.341	20.780	115.965	1.00 21.85
ATOM	2181		ALA A 274		58.005	19.759		1.00 25.68
MOTA	2182	C	ALA A 274	1	56.961	20.324		1.00 23.76
MOTA	2183	0	ALA A 2/4		58.122		117.680	1.00 25.20
MOTA	2184	N	PHE A 275		57.015	17 538	117.974	1.00 25.89
MOTA	2185		PHE A 275)		16 002	117.710	1.00 25.21
MOTA	2186	CB	PHE A 275		57.449	16.032	117.870	1.00 28.85
MOTA	2187	CG	PHE A 275		56.340		116.982	1.00 32.60
MOTA	2188	CD1	PHE A 275	-	55.278		118.910	1.00 28.93
MOTA	2189	CD2	PHE A 275		56.365		117.119	1.00 33.75
ATOM	2190	CE1			54.248	14.132	119.059	1.00 30.83
ATOM	2191	CE2			55.343		119.059	1.00 34.19
ATOM	2192	CZ	PHE A 27	5	54.282			1.00 24.63
ATOM	2193	С	PHE A 27		56.607	17.712	119.445	1.00 22.40
ATOM	2194	0	PHE A 27	5	55.428		119.767	1.00 25.45
ATOM	2195	N	LEU A 27		57.594	17.673	120.331	1.00 27.94
ATOM	2196	CA	LEU A 27	6	57.357	17.837	121.766	1.00 27.34
ATOM	2197	CB	LEU A 27	6	58.667	17.692	122.534	1.00 28.11
MOTA	2198	CG	LEU A 27	6	58.651	18.132	124.001	
ATOM	2199		LEU A 27	6	57.609	17.351	124.761	1.00 29.37
ATOM	2200	CD2		6	60.033	17.937	124.612	1.00 27.98
MOTA	2201	C	LEU A 27		56.770	19.208	122.058	1.00 30.12
ATOM	2202	ō	LEU A 27		55.822	19.348	122.838	1.00 28.69
ATOM	2203	N	LYS A 27		57.353	20.219	121.425	1.00 30.99
	2204	CA	LYS A 27		56.913	21.593	121.603	1.00 27.04
MOTA	2205	CB	LYS A 27	7	57.742	22.516	120.704	1.00 30.38
MOTA	2206	CG	LYS A 27		57.941	23.934	121.237	1.00 36.46
MOTA	2207	CD	LYS A 27		56.633		121.454	1.00 42.73
MOTA	2208	CE	LYS A 27	7	56.870	26.059	122.049	1.00 45.70
ATOM	2209	NZ	LYS A 27		57.528	26.004	123.390	1.00 44.64
MOTA	2210	C	LYS A 27	7	55.432	21.683	121.242	1.00 30.26
MOTA	2211	0	LYS A 27		54.640	22.284	121.972	1.00 27.55
MOTA	2212	N	ALA A 27		55.057	21.078	3 120.115	1.00 30.15
MOTA	2212	CA	ALA A 27	8	53.662	21.096	5 119.676	1.00 30.51
ATOM	2214	CB	ALA A 27	8	53.496	20.270	118.406	1.00 28.96
ATOM	2215	C	ALA A 27	8	52.789	20.527	7 120.786	1.00 30.99
MOTA	2215	Ö	ALA A 27		51.735	21.06	7 121.108	1.00 30.36
MOTA	2217	N	PHE A 2		53.245	19.422	2 121.360	1.00 27.85
ATOM	2218	CA	PHE A 2	19	52.540	18.75	9 122.448	1.00 29.62
ATOM	2219	CB	PHE A 2		53.343	17.53	4 122.886	1.00 26.83
ATOM	2220	CG	PHE A 2	79	52.786	16.82	3 124.078	1.00 29.11
ATOM	2221	CD	1 PHE A 2'	79	51.556	16.17	6 124.015	1.00 28.86
ATOM	2222		2 PHE A 2		53.505	16.78	6 125.267	1.00 33.03
MOTA	2223	CE	1 PHE A 2	79	51.054	15.50	0 125.121	1.00 37.90
MOTA	2224		2 PHE A 2		53.011	16.11	4 126.386	1.00 38.01
MOTA	2225		PHE A 2	79	51.783	15.46	9 126.313	1.00 36.23
MOTA MOTA	2226		PHE A 2	79 .	52.362	19.73	0 123.521	1.00 30.57
	2227		PHE A 2	79	51.265	19.85	3 124.184	1.00 26.26
atom atom	2228		ASN A 2	80	53.432	20.42	9 123.990	1.00 32.03
ATOM	2229			80	53.339	21.37	3 125.104	1.00 30.54
	2230			80	54.724	21.81	9 125.583	1.00 26.79
ATOM	2231				55.508	20.69	5 126.227	1.00 33.68
ATOM	2232		1 ASN A 2		54.958	19.88	6 126.971	1.00 34.47
MOTA	2233	เมก	2 ASN A 2	80	56.809	20.66	0 125.973	1.00 33.59
MOTA	2234		ASN A 2	80	52.493	22.58	7 124.781	1.00 30.46
MOTA	2235		ASN A 2	80	51.899	23.18	2 125.677	1.00 27.66
MOTA			ILE A 2		52.429	22.96	0 123.509	1.00 27.32
MOTA	2236				51.620	24.10	7 123.128	1.00 31.07
ATOM	2237				51.878	24.51	7 121.666	1.00 35.08
ATOM	2238		_	81	50.776	25.44	15 121.174	1.00 34.33
ATOM	2239			81	53.253	25.18	35 121.562	1.00 33.53
ATOM	2240		ol ILE A 2	81	53.590	25.69	4 120.178	1.00 34.88
ATCM	2241		ILE A 2	81	50.141	1 23.79	8 123.329	1.00 31.22
ATOM	2242		ILE A 2	81	49.39	24.62	21 123.854	1.00 30.15
ATOM	2243 2244		VAL A	82	49.723		6 122.923	1.00 30.91
MOTA	427	7	V					

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MOTA	2245	CA VAI	L A 282		48.332	22.214	123.081	1.00 30.76
	2246		L A 282		48.075		122.523	1.00 35.10
ATOM					46.641	20.358	122.841	1.00 28.72
MOTA	2247		L A 282					1.00 28.66
MOTA	2248		L A 282		48.313	20.781	121.018	
ATOM	2249		L A 282		47.952		124.558	1.00 31.39
ATOM	2250	O VA	L A 282		46.884			1.00 32.70
MOTA'	2251		G A 283		48.837	21.720	125.406	1.00 29.86
MOTA	2252		G A 283		48.587	21.675	126.840	1.00 34.82
	2253		G.A 283		49.629	20.785	127.519	1.00 31.44
MOTA.	2254		G A 283		49.551		127.061	1.00 29.49
MCTA			G A 283		50.729		127.554	1.00 30:67
MOTA	2255				50.730		128.990	1.00 30.78
MOTA	2256		G.A 283				129.742	1.00 35.27
MOTA	2257		G A 283		51.826		129.198	1.00 36.46
ATOM	2258		G A 283		53.012	18.611		1.00 35.90
ATOM	2259		G A 283		51.742		131.035	1.00 36.06
ATOM	2260		G A 283		48.561		127.473	
ATOM	2261	O AR	G A 283		47.830		128.439	1.00 35.04
ATOM	2262	N GL	U A 284		49.350		126.928	1.00 35.70
ATOM	2263	CA GL	U A 284		49.376	25.348	127.448	1.00 40.93
ATOM	2264	CB GL	U A 284		50.499	26.166	126.799	1.00 44.17
ATOM	2265		U A 284		51.917	25.702	127.141	1.00 56.39
MOTA	2266		U A 284		52.989	26.495	126.401	1.00 60.69
	2267		U A 284		53.012		126.542	1.00 63.13
ATOM			U A 284		53.810	25.880		1.00 62.79
ATOM	2268		U A 284		48.039		127.148	1.00 39.24
ATOM	2269				47.525		127.954	1.00 38.52
ATOM	2270		U A 284		47.472	25.703	125.986	1.00 33.75
MOTA	2271		L A 285				125.592	1.00 35.82
MOTA	2272		L A 285		46.205	26.294	124.062	1.00 34.14
MOTA	2273		L A 285		46.039			1.00 34.14
ATOM	2274		L A 285		44.654		123.693	
MOTA	2275		L A 285		47.114		123.419	1.00 37.26
ATOM	2276		T Y 585		44.964		126.192	1.00 38.96
ATOM	2277	O VA	L A 285		44.043		126.611	1.00 41.83
ATOM	2278	N PH	E A 286		44.931			1.00 37.57
MOTA	2279	CA PH	E A 286		43.760	23.608	126.753	1.00 35.05
ATOM	2280		E A 286		43.159	22.723	125.657	1.00 32.53
ATOM	2281		E A 286		42.544	23.490	124.529	1.00 30.15
ATOM	2282		E A 286		43.104		123.256	1.00 33.96
ATOM	2283		E A 286		41.398	24.245	124.736	1.00 30.30
MOTA	2284		E A 286		42.527	24.170	122.202	1.00 32.96
MOTA	2285		E A 286		40.813	24.958		1.00 31.67
	2286		E A 286		41.381	24.919		1.00 31.66
ATOM	2287		E A 280		43.922	22.773		1.00 35.18
ATOM			E A 28		42.984	22.080		1.00 36.97
MOTA	2288	O PH	Y A 28	,	45.086	22.840		1.00 30.87
ATOM	2289				45.297		129.862	1.00 30.06
ATCM	2290	CA GI	Y 28	, ,	45.525	20.590	129.527	1.00 34.44
ATOM	2291		Y 28			20.350	128.403	1.00 32.54
MOTA	2292	0 GI	LY 1. 28'		45.914	10 710	130.500	1.00 28.42
MOTA	2293		U A 28		45.288		130.300	1.00 32.23
MOTA	2294		U A 28		45.464			1.00 37.02
ATOM	2295		LU A 28		45.613		131.663	1.00 45.36
ATCM	2296		JU A 281		46.910	17.864	132.411	1.00 45.65
ATOM	2297		LU A 28		48.140	17.455	131.622	
ATCM	2298	OE1 G	LU A 28	3	48.144		131.069	1.00 46.42
ATOM	2299	OE2 G	LU A 28	3	49.106	18.245	131.571	1.00 50.78
ATOM	2300	C G	LU A 28	3	44.309	17.623	129.546	1.00 30.98
ATOM	2301	0 GI	LU A 28	3	43.144	17.957	1 129.762	1.00 28.67
ATOM	2302		LY A 28		44.641	16.694	128.657	1.00 29.66
	2303		LY A 28		43.625	15.999	127.886	1.00 28.08
ATCM			LY A 28		43.922	14.510		1.00 30.45
ATOM	2304		LY A 38		44.618	14.00		1.00 25.90
ATCM	2305	0 G	AL A 29	ń	43.384	13 80	7 126.868	1.00 26.21
ATCM	2306		AL A 29		43.612	12.37		1.00 27.31
ATOM	2307				42.288	11 67	6 126.412	1.00 26.53
ATOM	2308	CB V	AL A 29	0		10 14	B 126.204	1.00 25.36
ATCM	2309	CG1 V	AL A 29	U	42.554		2 127.565	1.00 24.38
atom	2310	CG2 V	AL A 29	U	41.308	11.82	2 12/.505	1.00 24.30

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ATOM	2311	C VAL A 290	44.580		1.00 24.52
ATOM		O VAL A 290	44.307		1.00 26.84 1.00 23.56
ATOM	2313	N TYR A 291			1.00 23.74
ATOM	2314	CA TYR A 291		11.478 124.732	1.00 18.40
ATOM	2315	CB TYR A 291	48.092		1.00 21.60
ATOM	2316	CG TYR A 291		13.113 120.110	1.00 23.83
MOTA	2317	CD1 TYR A 291	48.326 48.200	14.331 128.214	1.00 24.57
ATOM	2318	CE1 TYR A 291	47.634	14.291 125.503	1.00 18.17
ATOM	2319	CD2 TYR A 291 CE2 TYR A 291	47.504	15.476 126.220	1.00 26.36
MOTA	2320		47.786	15.489 127.575	1.00 27.68
	2321 2322	CZ TYR A 291 OH TYR A 291	47.631	16.657 128.283	1.00 28.92
ATOM	2322	C TYR A 291	46.768	10.118 124.044	1.00 23.03
ATOM ATOM	2324	O TYR A 291	-	9.082 124.707	1.00 20.66 1.00 23.96
ATOM	2325	N LEU A 292	46.755	10.142 122.711	1.00 23.90
ATOM	2326	CA LEU A 292	46.767	8.924 121.902 8.842 121.076	1.00 22.13
ATOM	2327	CB LEU A 292	45.482	9.063 121.814	1.00 23.78
ATOM	2328	CG LEU A 292	44.162 43.001	8.959 120.826	1.00 23.09
ATOM	2329	CD1 LEU A 292	44.008	8.050 122.930	1.00 16.01
MOTA	2330	CD2 LEU A 292 C LEU A 292	47.953	8.885 120.947	1.00 22.90
ATOM	2331	000	48.527	9.923 120.617	1.00 22.31
ATOM	2332 2333	O LEU A 292 N GLY A 293	48.301	7.684 120.491	1.00 18.83
ATOM	2334	CA GLY A 293	49.401	7.529 119.554	1.00 24.35
atom atom	2335	C GLY A 293	48.908	7.846 118.154	1.00 24.22
ATOM	2336	O GLY A 293	48.025	8.684 117.991 7.177 117.148	1.00 24.63
ATOM	2337	N GLY A 294	49.459	7.423 115.779	1.00 22.03
ATOM	2338	CA GLY A 294	49.035 50.024	6.869 114.769	1.00 22.90
ATOM	2339	C GLY A 294 O GLY A 294	50.956	6.150 115.136	1.00 24.10
ATOM	2340		49.825	7.203 113.499	1.00 19.85
ATOM	2341 2342	N GLY A 295 CA GLY A 295	50.721	6.724 112.458	1.00 23.33
MOTA ATOM	2342	C GLY A 295	52.185	7.010 112.740	1.00 19.01 1.00 19.39
ATOM	2344	O GLY A 295	52.541	8.094 113.196	1.00 19.35
ATOM	2345	N GLY A 296	53.035	6.026 112.472 6.162 112.690	1.00 22.65
ATOM	2346	CA GLY A 296	54.468 55.098	4.898 112.146	1.00 25.31
ATOM	2347	C GLY A 296	54.778	3.798 112.609	1.00 25.86
ATOM	2348	O GLY A 296 N TYR A 297	56.005	5.034 111.185	1.00 22.83
MOTA	2349	N TYR A 297 CA TYR A 297	56.598	3.852 110.577	1.00 23.93
ATOM	2350 2351	CB TYR A 297	56.137	3.780 109.125	1.00 21.59
ATOM ATOM	2352	CG TYR A 297	54.660	4.084 109.035	1.00 25.85 1.00 22.28
ATOM	2353	CD1 TYR A 297	54.203	5.402 109.017 5.695 109.089	
ATOM	2354	CE1 TYR A 297	52.842	3.062 109.116	
ATOM	2355	CD2 TYR A 297	53.713 52.352		1.00 21.83
ATOM	2356	CE2 TYR A 297 CZ TYR A 297	51.927	4.666 109.181	1.00 21.81
ATOM	2357	CZ TYR A 297 OH TYR A 297	50.588	4.972 109.305	1.00 19.51
ATOM	2358 2359	C TYR A 297	58.104	3.694 110.674	1.00 23.78
ATOM TOM	2360		58.665		1.00 22.07
atom atom	2361	N HIS A 298	58.765		
ATOM	2362	CA HIS A 298	60.204		
ATOM	2363	CB HIS A 298	60.913		
ATOM	2364		62.403 63.273		
ATOM	2365				1.00 32.49
ATOM				5.547 110.345	1.00 29.10
ATOM	2367			5.354 111.648	3 1.00 38.70
ATOM		> 200	60.371	4.188 112.99	1.00 27.81
FOM		100	60.120		
atom atom		N PRO A 299	60.82		
ATOM		2 CD PRO A 299	61.28		
ATOM	237	3 CA PRO A 299	61.02		5 1.00 29.03
-TCM	237			1 1.306 113.13	7 1.00 27.34
ATCN	1 237	5 CG PRO A 299			
1.TOM		6 C PRO A 29	02.00		

MOTA	2377	0	PRO A	299	61.480	3.622 116.	724	1.00 32.45
ATOM	2378	N	TYR A		62.959	3.932 115.		1.00 27.41
ATOM	2379	CA	TYR A		63.803	4.801 115.	878	1.00 27.34
ATOM	2380	CB	TYR A		65.163	5.058 115.	207	1.00 26.84
MOTA	2381	CG	TYR A		65.912	3.821 114.		1.00 29.09
ATOM	2382	CD1	TYR A		65.517	2.539 115.		1.00 30.93
ATOM	2383	CE1	TYR A		66.214	1.411 114.	682	1.00 30.68
MOTA	2384	CD2	TYR A		67.027	3.941 113.		1.00 29.72
ATOM	2385	CE2	TYR A		67.730	2.829 113.		1.00 30.76
ATOM	2386	CZ	TYR A		67.320	1.568 113.		1.00 33.89
ATOM	2387	OH	TYR A		68.011	0.471 113.		1.00 34.70
ATOM	2388	С	TYR A		63.113	6.134 116.		1.00 23.44
MOTA	2389	0	TYR A	300	63.108	6.631 117.		1.00 23.87
ATOM	2390	N	ALA A	301	62.530	6.711 115.		1.00 22.19
MOTA	2391	CA	ALA A	301	61.839	7.993 115.		1.00 26.50
ATOM	2392	CB	ALA A	301	61.266	8.416 113.		1.00 24.16
MOTA	2393	С	ALA A	301	60.715	7.878 116.		1.00 27.86
MOTA	2394	0	ALA A		60.556	8.728 117.		1.00 22.47
MOTA	2395	N	LEU A		59.940	6.808 116.		1.00 23.27 1.00 26.50
MOTA	2396	CA	LEU A		58.818	6.566 116.		1.00 26.02
MOTA	2397	CB	LEU A		58.036	5.354 116.		1.00 28.02
MOTA	2398	CG	LEU A		56.866	4.798 117		1.00 29.73
MOTA	2399		LEU A		55.983	3.938 116. 4.001 118		1.00 32.99
MOTA	2400		LEU A		57.394 59.246	6.373 118		1.00 27.49
MOTA	2401	C	LEU A		58.648	6.946 119		1.00 25.22
MOTA	2402	0	LEU A		60.289	5.580 118		1.00 27.85
MOTA	2403	N	ALA A		60.765	5.320 120		1.00 27.33
MOTA	2404 2405	CA CB	ALA A		61.854	4.269 119		1.00 29.17
MOTA	2405	CB	ALA A		61.279	6.580 120		1.00 26.64
MOTA MOTA	2407	ō	ALA A		60.944	6.849 121	. 875	1.00 23.18
ATOM	2408	N	ARG A		62.092	7.354 120		1.00 27.48
ATOM	2409	CA		304	62.648	8.570 120	.581	1.00 25.46
ATOM	2410	CB	ARG A	304	63.773	9.136 119	.704	1.00 21.31
ATOM	2411	CG	ARG A		65.005	8.231 119		1.00 25.98
MOTA	2412	CD	ARG A	304	66.153		.951	1.00 27.87 1.00 36.76
MOTA	2413	NE	ARG A		65.647	9.766 117		1.00 30.79
MOTA	2414	CZ	ARG A	304	66.207	10.838 117	.768	1.00 30.79
MOTA	2415		ARG A		67.323		.225	1.00 36.07
ATOM	2416		ARG A		65.623 61.585	9.634 120		1.00 25.46
MOTA	2417	C	ARG A		61.519	10.237 121	.876	1.00 24.23
MOTA	2418 2419	и	ALA A		60.741	9.854 119		1.00 22.22
MOTA	2419	CA	ALA A		59.700	10.868 119		1.00 26.70
ATOM ATOM	2421	CB	ALA A		58.914	10.960 118	.607	1.00 28.14
ATOM	2422	c	ALA A		58.749	10.626 121	.072	1.00 25.54
ATOM	2423	ō	ALA A		58 513	11.520 121	. 883	1.00 24.17
ATOM	2424	N	TRP A	306	58 1.89	9.426 121	.160	1.00 25.66
ATOM	3425	CA	TRP A	306	57.270	9.157 122	.253	1.00 28.01
MOTA	2426	CB	TRP A		56.454	7.873 122	.012	1.00 18.66
ATOM	2427	CG	TRP A		55.382	8.052 120		1.00 21.80 1.00 24.88
MOTA	2428	CD2			54.709	7.019 120 7.646 119	440	1.00 23.98
ATOM	2429	CE2			53.725	5.623 120	191	1.00 23.26
MOTA	2430	CE3			54.839	9.228 120	599	1.00 20.24
ATOM	2431	CD1			54.795 53.799	8.995 119	681	1.00 24.18
MOTA	2432				52.875	6.926 118	590	1.00 24.30-
MOTA	2433	CZ2			53.993	4.906 119	.335	1.00 23.89
ATOM	2434	CZ3			53.024	5.562 118		1.00 24.12
ATOM	2435	CH2 C	TRP A		57.969	9.113 123	.605	1.00 27.93
ATOM	2436 2437	0.	TRP A		57.330	9.319 124	1.637	1.00 28.58
ATOM	2437	N	THR A	307	59.273	8.851 123	3.615	1.00 26.76
atom Atom	2439	CA	THR A		60.000	8.850 124	1.881	1.00 22.81
ATOM	2440	CB	THR A	307	61.457	8.319 124	1.730	1.00 25.54
ATOM	2441	OG1	THR A	307	61.435	6.902 124	.504	1.00 22.73
ATOM	2442	CG2	THR A	307	62.269	8.599 125	. 988	1.00 24.03

10.288 125.396 1.00 26.54 60.027 THR A 307 2443 С MOTA 10.526 126.604 1.00 25.34 59.925 THR A 307 2444 0 MOTA 11.247 124.478 1.00 21.65 60.152 **LEU A 308** N 2445 ATOM 1.00 21.41 12:657 124.862 60.172 LEU A 308 CA 2446 MOTA 13.558 123.642 1.00 19.20 LEU A 308 60.442 2447 CB ATOM 13.386 122.938 1.00 21.31 61.797 LEU A 308 CG MOTA 2448 14.362 121.774 1.00 21.75 61.900 CD1_LEU A 308 2449 **ATOM** 13.622 123.915 1.00 19.26 CD2 LEU A 308 62.937 2450 ATOM 12.981 125.479 1.00 25.18 58.811 LEU A 308 C 2451 1.00 21.35 ATOM 13.565 126.561 58.731 LEU A 308 2452 0 ATOM 1.00 21.74 12.567 124.806 57.743 ILE A 309 MOTA 2453 N 1.00 19.23 12.799 125.298 56.394 ILE A 309 2454 CA 1.00 19.63 MOTA 12.149 124.366 55.337 ILE A 309 2455 CB MOTA 1.00 19.54 12.321 124.948 53.945 CG2 ILE A 309 2456 MOTA 12.788 122.979 1.00 20.80 CG1 ILE A 309 CD1 ILE A 309 55.403 2457 1.00 20.08 MOTA 14.274 122.988 55.118 2458 ATOM 1.00 23.97 12.222 126.701 56.228 ILE A 309 2459 С MOTA 12.894 127.602 1.00 21.38 55.731 - O ILE A 309 2460 ATOM 1.00 26.45 10.977 126.888 56.652 TRP A 310 2461 N 1.00 28.35 1.00 23.95 MOTA 10.342 128.192 56.525 TRP A 310 2462 CA MOTA 8.872 128.132 56.940 TRP A 310 CB 1.00 29.60 2463 8.203 129.479 7.967 130.263 ATOM 56.874 TRP A 310 2464 CG MOTA 1.00 31.40 55.697 CD2 TRP A 310 2465 MOTA 7.390 131.480 1.00 32.47 56.115 CE2 TRP. A 310 2466 ATOM-8.189 130.055 1.00 32.30 54.329 CE3 TRP A 310 2467 MOTA 7.770 130.232 1.00 33.42 57.926 CD1 TRP A 310 2468 1.00 30.09 MOTA 7.282 131.436 57.480 NE1 TRP A 310 2469 1.00 29.93 MOTA 7.030 132.492 55.213 CZ2 TRP A 310 2470 7.831 131.062 MOTA 1.00 29.72 53.432 CZ3 TRP A 310 2471 MOTA 1.00 24.53 7.259 132.265 53.881 CH2 TRP A 310 2472 MOTA 11.048 129.293 1.00 33.49 TRP A 310 57.308 2473 С 1.00 27.59 11.137 130.426 MOTA TRP A 310 56.820 0 2474 MOTA 1.00 29.34 11.535 128.984 CYS A 311 58.512 2475 N 1.00 30.06 MOTA 12.247 129.994 59.305 CA CYS A 311 1.00 30.08 2476 MOTA 12.538 129.479 60.722 CYS A 311 2477 CB 1.00 33.17 MOTA 11.084 129.327 61.804 CYS A 311 CYS A 311 2478 SG 1.00 29.25 MOTA 13.560 130.397 58.612 2479 С 1.00 28.80 ATOM 13.940 131.570 58.612 CYS A 311 2480 0 1.00 23.13 ATOM 14.247 129.425 58.021 GLU A 312 N 1.00 30.31 1.00 28.97 ATOM 2481 15:496 129.696 57.308 GLU A 312 2482 CA MOTA 16.032 128.427 56.648 GLU A 312 2483 CB 1.00 41.67 17.418 127.988 ATOM 57.080 GLU A 312 2484 CG 1.00 44.21 MOTA 18.465 129.059 56.905 GLU A 312 CD 2485 1.00 54.15 MOTA 18.534 129.658 . 55.813 OE1 GLU A 312 ATOM 2486 1.00 43.90 19.233 129.290 57.860 OE2 GLU A 312 2487 MOTA 15.225 130.712 1.00 28.03 56.204 GLU A 312 2488 С 1.00 30.64 MOTA 15.869 131.751 56.120 GLU A 312 0 2489 1.00 31.06 ATOM 14.270 130.388 LEU A 313 55.343 2490 N 1.00 36.21 ATOM 13.918 131.266 54.231 LEU A 313 1.00 28.83 MOTA 2491 CA 12.873 130.604 53.337 LEU A 313 CB 2492 MOTA 1.00 34.62 13.342 129.429 52.493 LEU A 313 2493 CG 1.00 33.05 12.146 128.788 MOTA 51.818 CD1 LEU A 313 2494 14.357 129.914 13.377 132.610 1.00 27.27 MOTA CD2 LEU A 313 51.471 2495 1.00 33.97 ATOM 54.685 LEU A 313 2496 С 1.00 37.26 MOTA 13.730 133.644 54.131 LEU A 313 2497 0 1.00 33.72 MOTA 12.508 132.577 55.688 SER A 314 2498 N 11.880 133.776 1.00 33.58 ATOM 56.233 SER A 314 1.00 35.88 2499 CA MOTA 10.743 133.388 57.183 **SER A 314** C3 2500 1.00 45.88 ATOM 9.761 132.628 56.517 SER A 314 2501 ЭG 12.846 134.659 1.00 31.54 MOTA 57.002 SER A 314 2502 1.00 27.69 12.513 135.788 ATOM 57.339 SER A 314 2503 O 1.00 35.50 MOTA 14.021 134.130 57.312 GLY A 315 2504 N 1.00 36.31 14.996 134.905 ATOM 58.057 GLY A 315 1.00 38.47 CA 2505 14.634 135.099 ATCM 59.518 GLY A 315 С 2506 1.00 41.57 15.049 136.078 ATOM 60.138 GLY A 315 2507 1.00 39.32 J 13.862 134.181 ATOM 60.089 ARG A 316 2508 N ATOM

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MOTA	2509	CA	ARG A	316		61.490	13.501	134.332	1.00	39.06
MOTA	2510	CB	ARG A			61.641		134.413	1.00	39.16
ATOM	2511	CG	ARG A			61.233		133.184	1.00	39.11
ATOM	2512	CD	ARG A			61.426		133.429	1.00	41.21
ATOM	2513	NE	ARG A			60.461		134.389	1.00	40.97
ATOM	2514	CZ	ARG A			60.524		134.926		36.40
ATOM	2515	NH1	ARG A			61.511		134.598	1.00	38.93
ATOM	2516	NH2	ARG A			59.583		135.768		30.53
ATOM	2517	С	ARG A			62.369		133.230		40.17
ATOM	2518		-ARG A			61.910		132.111		34.27
MOTA	2519	N	GLU A			63.633		133.564		41.26
ATOM	2520	CA	GLU A			64.580		132.619		44.42
MOTA	2521	CB	GLU A		•	65.901		133.317	1.00	46.84
ATOM	2522	CG	GLU A			65.756		134.629		57.66
ATOM	2523	CD	GLU A			65.212		135.743	1.00	65.46
ATOM	2524	OE1				65.871		136.073	1.00	68.38
ATOM	2525	OE2	GLU A			64.129	15.425	136.287	1.00	67.24
MOTA	2526	С	GLU A	317		64.873	13.962	131.462	1.00	38.45
MOTA	2527	0	GLU A	317		64.977	12.748	131.636	1.00	38.84
ATOM	2528	N	VAL A	318		65.010	14.525	130.275	1.00	37.64
ATOM	2529	CA	VAL A	318		65.315	13.720	129.108	1.00	39.13
MOTA	2530	CB	VAL A	318		64.858	14.417	127.810	1.00	42.75
ATOM	2531	CG1	VAL A	318		65.192	13.544	126.610		41.84
ATOM	2532	CG2	VAL A	318		63.364	14.701	127.867		42.38
MOTA	2533	С	VAL A			66.822		129.037		38.45
ATOM	2534	0	VAL A	318		67.598		128.910		36.04
MOTA	2535	N	PRO A			67.261		129.156		39.54
MOTA	2536	CD	PRO A		•	66.512		129.397		40.47
MOTA	2537	CA	PRO A			68.695		129.088		43.85
MOTA	2538	CB	PRO A			68.745		129.319		44.12
ATOM	2539	CG	PRO A			67.419		128.745		46.48
ATOM	2540	C	PRO A			69.228		127.718		43.55
ATOM	2541	0	PRO A			68.563		126.708		43.45
ATOM	2542	N	GLU A			70.420		127.689		42.52
ATOM	2543	CA	GLU A			71.026		126.440		45.19 43.86
ATOM	2544	CB	GLU A			72.384 73.121		126.706 125.434		52.62
MOTA	2545	CG	GLU A			74.507		125.434		52.36
ATOM	2546 2547	CD	GLU A			75.219		124.720		56.25
ATOM	2548	OE1 OE2	GLU A			74.883		126.875		52.25
ATOM .	2549	C	GLU A			71.223		125.421		43.52
ATOM	2550	0	GLU A			70.876		124.253		41.89
ATOM	2551	N	LYS A			71.781		125.867		43.35
ATOM	2552	CA	LYS A			72.059		124.969		43.53
MOTA	2553	CB	LYS A			73.561		124.879		42.78
ATOM	2554	CG	LYS A			74.238		126.180		49.38
ATOM	2555	CD	LYS A			74.272		127.307		57.82
ATOM	2556	CE	LYS A			72.978	10.497	128.129	1.00	53.81
ATOM	2557	NZ	LYS A			72.660	9.245	128.883	1.00	54.17
ATOM	2558	С	LYS A	321		71.407	8.731	125.345	1.00	41.52
ATOM	2559	0	LYS A	321		70.954	8.540	126.469		41.98
MOTA	2560	N	LEU A	322		71.378	7.820	124.382		38.64
MOTA	2561	CA	LEU A			70.815		124.613		40.46
MOTA	2562	CB	LEU A	322		70.442		123.289		42.22
MOTA	2563	CG	LEU A	322		69.595		122.287		42.92
MOTA	2564		LEU A			69.204	5.737			41.13
MOTA	256.5	CD2	LEU A			68.361		122.967		44.41
ATOM	2566	С	LEU A			71.918		125.268		41.36
ATOM	2567	0	LEU A			73.079		124.884		44.16
ATOM	2568	N	ASN A			71.579		126.265		39.89
MOTA	2569	CA	ASN A			72.594		126.895		40.96
MOTA	2570	CB	ASN A			72.136		128.259		43.00
ATOM	2571	CG	ASN A			70.787		128.202		45.59
ATOM	2572	OD1				70.482		127.264		45.71
ATOM	2573	ND2	ASN A			69.975		129.224		48.08
ATOM	2574	С	ASN A	323		72.828	2.894	125.954	1.00	44.88

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ATOM	2575	O ASN	A 323	72.1	24			1.00 46	
ATOM			A 324	73.8	09			1.00 45	
ATOM	2577		A 324	74.1	_			1.00 49	
MOTA	2578		A 324	75.3		0.244		1.00 53	3.00
ATCM	2579		A 324	75.9	-	-0.711		1.00 6	
MOTA	2580		A 324	75.3		-1.723		1.00 5	
ATOM	2581		A 324	77.1		-0.386			7.12
ATOM	2582		A 324	72.9		-0.070	123.267	1.00 4	
MOTA	2583		A - 324	72.7		0.044	126.339	1.00 4	6.39
MOTA	2584		A 325	72.2 71.1			126.318	1.00 4	
MOTA	2585	CA LYS	A 325	70.4		-1 328	127.695	1.00 4	
MOTA	2586	CB LYS	A 325 A 325	71.2		-1.837	128.858	1.00 5	
MOTA	2587		A 325	72.1	-		129.526	1.00 5	
ATOM	2588 2589	CE LYS	A 325.	73.3		-0.289	128.671	1.00 5	
ATOM ATOM	2590		A 325	74.0	91	0.816	129.307	1.00 5	
ATOM	2591	C LYS	A 325.	70.0		-0.791	125.296	1.00 4	5.1/
ATOM	2592	O LYS	A 325	69.4			124.601	1.00 4	
MOTA	2593		A 326	69.8		0.514		1.00 4	
ATOM	2594		A 326	68.8		1.054	124.276	1.00 4	
MOTA	2595		A 326	68.5		2.508	122.838	1.00 4	
MOTA	2596		A 326	69.1 68.		0.540	121.926	1.00 4	5.17
MOTA	2597	O ALA	A 326	70.		1.191	122.637	1.00 4	13.46
MOTA	2598	N LYS	A 327 A 327	71.		1.120	121.296	1.00 4	13.26
MOTA	2599	CA LYS	A 327	72.		1.484	121.311	1.00 4	
ATOM	2600 2601	CG LYS		73.		2.892	121.800	1.00	
ATOM ATOM	2602		A 327	74.			121.747		52.74
ATOM	2603	CE LYS		74.			122.377	1.00 9	
ATOM	2604	NZ LYS	A 327	74.			121.715	1.00 5	41.29
ATOM	2605	C LYS	A 327	71.			120.728 119.592	1.00	
MOTA	2606		A 327	70.		-0.437	121.526	1.00	39.95
MOTA	2607		A 328		403 276	-2 660	121.090	1.00	
ATOM	2608		A 328		875	-3.605	122.135	1.00	43.05
MOTA	2609		A 328 A 328		369	-3.432	122.295	1.00	
MOTA	2610 2611		A 328		096	-3.529	120.963	1.00	
ATOM	2612		A 328		972	-4.574	120.291	1.00	
MOTA MOTA	2613		A 328	74.	785	-2.558	120.584		51.64
ATOM	2614	C GLU	A 328		825		120.818		39.51 37.35
ATOM	2615	o GLU	A 328		536	-3.842	119.939 121.582		36.37
ATOM	2616		A 329		911	-2.444	121.382		36.03
ATOM	2617	CA LEU	A 329		.496 .646	-1 958	122.400		34.66
ATOM	2618	CB LEU	A 329 A 329		133	-2.110	122.213		33.88
ATOM	2619	CG LEU	A 329	64	755	-3.572	122.351	1.00	36.21
ATOM	2620 2621	CD1 LEU	A 329		391	-1.268	123.240	1.00	34.00
ATOM	2622	C LEU	A 329		.120	-2.268	119.971	1.00	33.64
ATOM ATOM	2623	O LEU	A 329	66	. 655	-3.061	119.162	1.00	31.29
ATOM	2624		0 EE A		. 333	-0.990	119.681	1.00	33.78
ATOM	2625		A 330		.004	-0.463	118.366	1.00	30.74
MOTA	2626		0 E E A		.326	1.033	118.294 119.205	1.00	31.51
MOTA	2627	CG LEU	A 330		.514	2.40	118.894	1.00	22.11
MOTA	2628	CD1 LEU	1 A 330		.857 .028	1 729	118.978	1.00	29.69
ATOM	2629	CD2 LEU	1 A 330		.729	-1.20	117.246	1.00	36.49
ATOM	2630		J A 330 J A 330		.142	-1.49	3 116.210	1.00	35.61
ATOM	2631		A 330	69	.005	-1.50	3 117.455	1.00	37.63
ATOM	2632		S A 331		.786	-2.20	5 116.446	1.00	41.32
ATCM	2633 2634		S A 331	71	.256	-2.27	2 116.874	1.00	44.74
ATOM ATOM	2635	CG LY	s A 331		.954	-0.91	9 116.869		44.68 51.42
ATOM	2636	CD LY	s A 331		.350	-0.96	4 117.498		53.71
ATOM	2637	CE LY	s A 331		.315		9 116.765		56.15
ATOM	2638	NZ LY	5 A 331		.928		7 116.855 2 116.173		42.35
ATOM	2639		s A 331		.258		6 115.042		42.68
ATOM	2640	O LY	s A 331	69	.310	-4.00		•	

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MOTA	2641	N	SER A	332	68.734	-4.270		1.00 41.56
ATOM	2642	CA	SER A	332	68.226	-5.629	117.039	1.00 46.88
ATOM	2643		SER A		68.045	-6.298	118.400	1.00 42.19
			SER A		66.959	-5.714		1.00 39.55
MOTA	2644	OG			66.896	-5.687		1.00 48.58
MOTA	2645	С	SER A					1.00 45.78
MOTA	2646	0	SER A		66.393	-6.774		
MOTA	2647	N	ILE A	333	66.325	-4.531		1.00 48.27
ATOM	2648	CA	ILE A		65.041	-4.503	115.292	1.00 51.82
	2649	CB	ILE A		64.378	-3.119		1.00 52.16
MOTA					63.038		114.683	1.00 52.64
MOTA	2650	CG2	ILE A				116.871	1.00 52.70
MOTA	2651	CG1	ILE A		64.163			
MOTA	2652	CD1	ILE A	333	63.550		117.077	1.00 56.70
MOTA	2653	С	ILE A	333	65.112		113.820	1.00 53.43
MOTA	2654	0	ILE A		66.118	-4.675	113.145	1.00 56.45
	2655	N	ASP A		64.016	-5.461	113.344	1.00 55.53
MOTA			ASP A		63.865		111.962	1.00 59.58
ATOM	2656	CA					111.918	1.00 62.69
MOTA	2657	CB	ASP A		62.845			1.00 66.23
MOTA	2658	CG	ASP A		61.546		112.664	
ATOM	2659	OD1	ASP A	334	60.795		112.227	1.00 63.25
ATOM	2660	OD2	ASP A	334	61.277	-7.354	113.704	1.00 63.45
ATOM	2661	c	ASP A		63.385	-4.705	111.125	1.00 60.81
	2662	ō	ASP A		62.239	-4.673	110.681	1.00 59.47
ATOM					64.266		110.889	1.00 60.00
ATOM	2663	N	PHE A				110.147	1.00 59.37
ATOM	2664	CA	PHE A		63.864	-2.545		
ATOM	2665	CB	PHE A	335	64.247		110.952	1.00 53.38
MOTA	2666	CG	PHE A	335	63.895	-0.013	110.275	1.00 49.13
ATOM	2667	CD1	PHE A	335	62.618	0.189	109.770	1.00 44.32
	2668		PHE A		64.845	0.993	110.127	1.00 49.91
ATOM			PHE A		62.288	1.373	109.122	1.00 42.74
MOTA	2669				64.526	2.180	109.483	1.00 46.40
ATOM	2670		PHE A					1.00 42.77
ATOM	2671	CZ	PHE A		63.244	2.370	108.978	
ATOM	2672	С	PHE A		64.334	-2.399	108.696	1.00 60.85
ATOM	2673	0	PHE A	335	63.689		107.785	1.00 66.28
ATOM	2674	N	GLU A	336.	65.430	-1:671	108.493	1.00 57.40
MOTA	2675	CA	GLU A		66.015	-1.411	107.174	1.00 58.96
			GLU A		65.782	-2.579	106.211	1.00 62.66
ATOM	2676	CB			66.417	-2.377	104.846	1.00 68.51
ATOM	2677	CG	GLU A				103.943	1.00 73.21
MOTA	2678	CD	GLU A		66.277	-3.590		
MOTA	2679	OEl	GLU A		66.753		104.333	1.00 73.30
ATOM	2680	OE2	GLU A	336	65.697	-3.457	102.843	1.00 75.74
MOTA	2681	С	GLU A	336	65.460	-0.124	106.576	1.00 55.70
ATOM	2682	ō	GLU A		64.281	-0.023	106.253	1.00 55.28
	2683	N	GLU A		66.338	0.857	106.432	1.00 54.75
MOTA			GLU A		65.986	2.167	105.905	1.00 55.99
MOTA	2684	CA				3.065	105.983	1.00 51.75
MOTA	2685	CB	GLU A		67.221		106.092	1 00 52.28
MOTA	2686	CG	GLU A		66.926	4.536		
ATOM	2687	CD	GLU A	337	66.184	4.891	107.366	:.00 43.72
ATOM	2688	OEl	GLU A	337	66.705		108.474	00 42.21
ATOM	2589		GLU A		65.072	5.425	107.256	1.00 47.31
	2690	c	GLU A		65.485	2.064	104.460	1.00 57.56
MOTA					66.087		103.639	1.00 58.29
ATOM	2691	0	GLU A				104.151	1.00 60.26
ATOM	3692	Ŋ	PHE A		64.385	2.743	104.131	1.00 61.69
MOTA	2693	CA	PHE A		63.814		102.805	
ATOM	2694	CB	PHE A	. 338	62.561	3.582		1.00 60.86
ATOM	2695	CG	PHE A		61.845	3.493	101.401	1.00 61.92
MOTA	2696		PHE A		61.054	2.391	101.094	1.00 62.99
			PHE A		61.970			1.00 62.74
MOTA	2697	CDZ	END A	330	60.392	2.302	99.868	1.00 65.11
MOTA	2698		PHE A	330			99.228	1.00 64.62
MOTA	2699	CE2	PHE A		61.315	4.428		
ATOM	2700	CZ	PHE A		60.523	3.322	98.934	1.00 63.87
MOTA	2701	С	PHE A	. 338	64.818	3.208	101.773	1.00 64.33
ATOM	2702	ō	PHE A		64.803	2.781	100.616	1.00 62.45
	2703	N	ASP A		65.677	4.130	102.194	1.00 64.11
ATOM			ASP A		66.689	4.684	101.310	1.00 67.42
ATOM	2704	CA	ASP A		66.565		101.248	1.00 67.20
ATCM	2705	CB				6 030	100.402	1.00 68.03
ATOM	2706	CG	ASP A	229	67.647	0.830	200.402	1.00 00.00

Figure 18-42

6.432 99.229 1.00 72.20 OD1 ASP A 339 67.796 2707 MOTA 1.00 64.15 68.346 7.740 100.904 OD2 ASP A 339 2708 MOTA 4.295 101.763 1.00 68.73 68.088 ASP A 339 2709 С MOTA 1.00 68.17 4.628 102.869 68.511 ASP A 339 2710 0 ATOM 1.00 71.90 3.588 100.888 68.796 ASP A 340 2711 N ATOM 1.00 73.59 3-.111 101.149 70.151 ASP A 340 2712 CA MOTA 1.00 75.47 99.848 70.778 2.601 ASP A 340 CB 2713 MOTA 1.00 76.03 69.953 99.195 1.511 ASP A 340 CG 2714 MOTA 1.00 76.90 99.823 69.761 0.449 OD1 ASP A 340 2715 ATOM 1.00 80.23 98.054 69.492 1.718 OD2 ASP A 340 2716 ATOM 1.00 72.77 4.155 101.766 . 71.069 ASP A 340 MOTA 2717 1.00 73.08 3.946 102.845 71.618 ASP A 340 2718 0 MOTA 5.275 101.074 1.00 73.15 71.242 72.112 GLU A 341 2719 N MOTA 1.00 74.56 6.341 101.557 GLU A 341 2720 CA MOTA 1.00 77.06 6.924 100.390 72.917 GLU A 341 2721 CB 8.034 100.792 MOTA 1.00 82.57 GLU A 341 73.878 2722 CG ATOM 1.00 85.34 74.924 75.718 74.951 7.571 101.794 GLU A 341 2723 CD MOTA 6.669 101.450 1.00 86.64 OE1 GLU A 341 2724 ATOM 1.00 85.37 8.106 102.924 OE2 GLU A 341 2725 ATOM 1.00 72.47 7.453 102.245 71.327 GLU A 341 GLU A 341 2726 С MOTA 1.00 76.75 8.364 101.589 70.822 2727 0 1.00 67.86 MOTA 7.381 103.566 VAL A 342 71.228 2728 N MOTA 1.00 64.84 8.393 104.323 7.853 104.850 70.503 VAL A 342 2729 CA MOTA 1.00 66.27 69.160 VAL A 342 2730 CB MOTA 1.00 67.95 68.256 7.494 103.701 CG1 VAL A 342 2731 MOTA 1.00 65.37 6.637 105.722 69.400 CG2 VAL A 342 2732 MOTA 8.871 105.520 1.00 61.75 VAL A 342 71.305 2733 C MOTA 1.00 64.14 71.375 10.066 105.795 VAL A 342 2734 0 MOTA 1.00 56.79 7.925 106.225 71.912 ASP A 343 2735 N ATOM 1.00 54.53 8.229 107.417 72.692 ASP A 343 2736 CA ATOM-1.00 56.31 9.340 107.158 ASP A 343 73.707 CB 2737 MOTA 1.00 58.81 9.660 108.388 74.531 ASP A 343 2738 CG 1.00 65.36 ATOM 10.644,108.357 75.298 OD1 ASP A 343 MOTA 2739 1.00 54.29 74.420 71.765 8.918 109.387 OD2 ASP A 343 2740 MOTA 1.00 50.70 8.675 108.534 ASP A 343 2741 C 1.00 46.00 MOTA 9.859 108.651 ASP A 343 ARG A 344 71.442 0 2742 MOTA 7.717 109.341 1.00 46.20 71.328 2743 N 1.00 41.18 ATOM 8.004 110.463 70.452 ARG A 344 2744 CA ATOM 1.00 39.81 7.268 110.299 69.121 ARG A 344 2745 CB MOTA 1.00 35.08 7.711 109.098 68.289 ARG A 344 2746 CG 1.00 28.37 1.00 30.90 MOTA 9.211 109.121 68.036 ARG A 344 2747 CD MOTA 9.645 108.036 67.157 ARG A 344 2748 NE 1.00 31.05 MOTA 10.909 107.649 ARG A 344 67.013 2749 CZ MOTA 11.874 108.258 1.00 30.49 67.693 66.201 NH1 ARG A 344 2750 1.00 31.76 MOTA 11.212 106.646 NH2 ARG A 344 2751 MOTA 1.00 38.46 7.561 111.742 ARG A 344 ARG A 344 SER A 345 71.147 2752 С MOTA 1.00 34.99 7.370 112.773 70.516 0 2753 1.00 33.97 ATOM 7.418 111.662 72.464 2754 N 6.981 112.795 MOTA 1.00 33.68 73.261 SER A 345 2755 ATOM CA 1.00 39.11 6.972 112.404 74.742 SER A 345 2756 CB ATOM 1.00 42.80 8.260 111.990 75.163 SER A 345 2757 OG ATOM 7.826 114.053 1.00 31.83 73.054 SER A 345 2758 C 1.00 24.35 MOTA 7.314 115.167 73.100 SER A 345 2759 0 ATOM 1.00 33.10 9.119 113.877 72.819 TYR A 346 ATOM 2760 N 10.003 115.015 1.00 34.50 72.614 TYR A 346 2761 CA MOTA 11.437 114.522 1.00 35.16 72.397 TYR A 346 2762 CB MOTA 1.00 39.69 11.615 113.659 71.168 TYR A 346 CG 2763 MOTA 11.814 114.227 1.00 36.57 69.909 CD1 TYR A 346 2764 1.00 40.23 MOTA 11.940 113.424 CEL TYR A 346 68.767 2765 1.00 39.04 ATOM 11.544 112.270 71.260 CD2 TYR A 346 2766 11.667 111.463 ATOM 1.00 38.65 70.131 CE2 TYR A 346 2767 1.00 37.64 ATOM 11.864 112.041 TYR A 346 68.890 2768 CZ ATOM 1.00 32.48 11.982 111.234 67.776 TYR A 346 OH 2769 1.00 37.72 9.560 115.874 ATOM 71.432 TYR A 346 2770 C 1.00 35.48 MOTA 9.829 117.074 71.396 TYR A 346 0 2771 8.869 115.265 1.00 35.36 ATCM 70.472 MET A 347 N 2772 ATCM

ATOM	2773	CA	MET	A	347		69.295	8.418	116.004	1.00 36.97
ATOM	2774	CB	MET	Α	347		68.226	7.868	115.052	1.00 33.45
ATOM	2775	CG	MET	Δ	347		67.853	8.809	113.921	1.00 28.09
	2776	SD	MET				66.471		112.943	1.00 32.14
MOTA										
ATOM	2777	CE	MET				67.058	6.647	112.457	1.00 39.25
ATOM-	2778	С	MET	Α	347		69.632	7.363	117.055	1.00 34.67
MOTA	2779	0	MET	Α	347		68.890	7.187	118.016	1.00 33.46
ATOM	2780	N	LEU	Α	348		70.747	6.663	116.880	1.00 36.42
ATOM	2781	CA	LEU				71.137	5.641	117.846	1.00 34.57
-	2782		-LEU				71.841		117.152	1.00 34.16
ATOM							71.066		116.121	1.00 34.10
ATOM	2783	CG	LEU		348		_	3.655		
MOTA	2784	CD1					72.010	2.660	115.469	1.00 36.58
MOTA	2785	CD2	LEU	Α	348	•	69.906	2.935	116.788	1.00 42.34
ATOM	2786	С	LEU	A	348		72.075	6.232	118.885	1.00 37.10
ATOM	2787	0	LEU	Α	348		72.583	5.513	119.745	1.00 37.75
MOTA	2788	N	GLU		349		72.295	7.541	118.801	1.00 38.31
ATOM	2789	CA	GLU		349		73.192		119.726	1.00 42.86
	2790	CB	GLU		349		74.150	9.136	118.948	1.00 47.04
ATOM								8.426	117.867	1.00 53.27
MOTA	2791	CG	GLU		349		74.942			
MOTA	2792	CD	GLU				75.828	7.325	118.410	1.00 58.36
ATOM	2793	OE1					76.681		119.279	1.00 59.59
ATOM	2794	OE2	GLU	Α	349		75.669	6.166	117.963	1.00 59.17
ATOM	2795	С	GLU	Α	349		72.458	9.080	120.752	1.00 41.72
ATOM	2796	0	GLU		349		72.564	8.852	121.959	1.00 42.27
ATOM	2797	N	THR				71.716	10.067	120.261	1.00 37.05
MOTA	2798	CA	THR				70.992	10.976	121.135	1.00 40.78
	2799	CB	THR				71.468		120.900	1.00 41.69
MOTA									119.508	1.00 43.25
ATOM	2800	OG1	THR				71.359	12.733	. –	
ATOM	2801	CG2	THR				72.918	12.575	121.325	1.00 44.11
ATOM	2802	С	THR				69.474	10.911	120.968	1.00 41.47
ATOM	2803	0	THR	Α	350		68.968	10.608	119.884	1.00 39.72
MOTA	2804	N	LEU	Α	351		68.760	11.199	122.054	1.00 38.68
ATOM	2805	CA	LEU	Α	351		67.299	11.185	122.056	1.00 35.91
ATOM	2806	CB	LEU	Α	351		66.763	11.210	123.487	1.00 35.94
ATOM	2807	CG	LEU				66.752		124.251	1.00 37.67
ATOM	2808	CD1					66.290		125.677	1.00 40.11
							65.813		123.544	1.00 39.29
ATOM	2809	CD2	LEU							1.00 37.76
ATOM	2810	C	LEU				66.679		121.294	
ATOM	2811	0	LEU				65.747		120.512	1.00 34.86
ATOM	2812	N	LYS		352		67.192	13.544	121.525	1.00 34.79
MOTA	2813	CA	LYS	Α	352		66.651	14.724	120.870	1.00 38.73
ATOM	2814	CB	LYS	Α	352		66.676	15.911	121.835	1.00 36.48
MOTA	2815	CG	LYS	Α	352		66.062	15.580	123.179	1.00 42.08
ATOM	2816	CD	LYS				66.202	16.701	124.196	1.00 43.22
ATOM	2817	CE	LYS				65.349	17.901	123.845	1.00 49.81
			LYS				65.342		124.972	1.00 52.70
MOTA										1.00 38.77
MOTA	2819	C	LYS				67.425		119.610 119.601	1.00 36.21
MOTA	2820	0	LYS				68.654			
MOTA	2821	N	ASP				66.697	15.293	118.530	1.00 37.69
MOTA	2822	CA	ASP				67.337		117.286	1.00 39.89
ATOM	2823	CB	ASP	Α	353		66.532		116.110	1.00 43.53
MOTA	2824	CG	ASP	Α	353		65.058		116.211	1.00 47.99
ATOM	2825		ASP				64.253	14.623	115.593	1.00 38.06
ATOM	2826		ASP				64.706		116.898	1.00 52.94
	2827	c	ASP				67.457		117.247	1.00 39.20
MOTA			ASP				66.890		118.092	1.00 35.20
MOTA	2828	0								
MOTA	2829	N	PRO				68.244		116.302	1.00 40.75
ATOM	2830	CD	PRO				69.047		115.279	1.00 40.05
MOTA	2831	CA	PRO				68.426		116.179	1.00 38.41
ATOM	2832	CB	PRO				69.534		115.140	1.00 36.24
ATOM	2833	CG	PRO				69.190	18.095	114.225	1.00 39.41
MOTA	2834	c	PRO				67.144	19.780	115.689	1.00 37.28
MOTA	2835	ō	PRO				66.299		115.094	1.00 31.87
	2836	N	TRP				66.993		115.934	1.00 37.87
MOTA			TRP				65.804	21 757	115.472	1.00 40.04
MOTA	2837	CA CB			355		65.714	23 157	116.080	1.00 42.85
ATOM	2838	CD	IRP	A	د د د		05.719	/ د ۱ . د به		1.00 .000

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1.00 53.01
                                 64.333
                                         23.471 116.569
                 TRP A 355
       2839
             CG
ATOM
                                                           1.00 54.23
                                         24.463 116.047
                                 63.439
             CD2 TRP A 355
       2840
MOTA
                                         24.368 116.783
                                                           1.00 52.59
                                 62.234
             CE2 TRP A 355
       2841
MOTA
                                                          1.00 52.82
                                         25.422 115.028
                                 63.538
             CE3 TRP A 355
       2842
MOTA
                                                           1.00 51.80
                                         22.836 117.575
                                 63.655
             CD1 TRP A 355
       2843
MOTA
                                                           1.00 51.38
                                         23.368 117.708
                                 62.393
             NE1 TRP A 355
       2844
MOTA
                                         25.197 116.532
                                                           1.00 51.28
             CZ2 TRP A 355
                                 61.134
       2845
MOTA
                                                           1.00 53.22
                                          26.245 114.779
                                 62.444
             CZ3 TRP A 355
       2846
MOTA
                                          26.126 115.531
                                                           1.00 50.50
                                 61.257
             CH2 TRP A 355
       2847
MOTA
                                          21.836 113.954
                                                           1.00 37.34
                                 65.935
                  TRP A 355
       2848
             C
MOTA
                                                           1.00 39.01
                                 67.041
                                          21.929 113.422
                  TRP A 355
       2849
             0
MOTA
                                          21.764 113.259
                                                           1.00 36.31
                                 64.809
                  ARG A 356
       2850
             N
MOTA
                                          21.820 111.802
                                                           1.00 35.22
                                  64.797
                  ARG A 356
       2851
             CA
MOTA
                                                           1.00 33.36
                                          20.469 111.252
                                  64.317
                  ARG A 356
       2852
             CB
MOTA
                                                           1.00 34.50
                                          19.340 111.564
                                  65.310
             CG
                  ARG A 356
       2853
ATOM
                                          17.927 111.468
                                                           1.00 28.06
                                  64.729
                  ARG A 356
       2854
             CD
MOTA
                                          16.956 111.870
                                                          1.00 24.79
                                  65.745
                  ARG A 356
                                                          1.00 27.56
             NE
       2855
MOTA
                                          15.703 112.236
                                  65.499
                  ARG A 356
       2856
              CZ
MOTA
                                                           1.00 19.09
                                          15.237 112.259
              NH1 ARG A 356
                                  64.253
       2857
MOTA
                                                           1.00 21.34
                                          14.918 112.604
                                  66.502
              NH2 ARG A 356
MOTA
       2858
                                          22.955 111.390
                                                           1.00 33.74
                  ARG A 356
                                  63.874
        285,9
MOTA
                                          22.732 110.950
                                                           1.00 34.68
                                  62:746
                  ARG A 356
        2860
              0
MOTA
                                                           1.00 35.60
                                          24.181 111.550
                                  64.361
                  GLY A 357
        2861
              N
MOTA
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                                  63.556
                  GLY A 357
        2862
              CA
ATOM
                                                           1.00 38.08
                                          25.932 109.830
                                  63.719
                  GLY A 357
              C
        2863
 MOTA
                                                           1.00 37.29
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                                  64.112
                  GLY A 357
        2864
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MOTA
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                                  63.406
                  GLY A 358
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 ATCM
                                                            1.00 36.36
                                          27.925 108.457
                               63.493
                  GLY A 358
              CA
 ATOM
        2866
                                           28.966 108.499
                                                            1.00 39.45
                  GLY A 358
                                  62.398
        2867
              С
 ATOM
                                                            1.00 37.58
                                           29.131 109.539
                                  61.763
                  GLY A 358
 ATOM
        2868
              0
                                           29.662 107.391
                                                            1.00 40.89
                                  62.163
                  GLU A 359
        2869
              N
 MOTA
                                           30.682 107.358
                                                            1.00 41.37
                  GLU A 359
                                  61.121
        2870
              CA
 ATOM
                                                            1.00 44.64
                                           31.627 106.172
                                  61.310
              CB
                  GLU A 359
        2871
 MOTA
                                                            1.00 52.13
                                           30.977 104.848
                                  60.956
                  GLU A 359
        2872
              CG
 MOTA
                                           31.973 103.708
                                                            1.00 59.14
                                  60.833
                  GLU A 359
 MOTA
        2873
              CD
                                                            1.00 60.47
                                           31.551 102.593
                                  60.448
        2874
              OE1 GLU A 359
 MOTA
                                           33.173 103.923
                                                            1.00 57.77
              OE2 GLU A 359
                                  61.119
        2875
 ATOM
                                                            1.00 38.02
                                  59.770
                                           30.006 107.200
                   GLU A 359
              С
        2876
 MOTA
                                           28.828 106.850
                                                            1.00 35.29
                                  59.689
                   GLU A 359
        2877
              0
 ATCM
                                           30.762 107.441
                                                            1.00 36.81
                                  58.708
57.363
                   VAL A 360
        2878
              N
 ATOM
                                                            1.00 35.97
                                           30.237 107.291
                   VAL A 360
              CA
 ATCM
        2879
                                                            1.00 34.90
                                           30.789 108.368
                                  56.401
                   VAL A 360
        2880
              CB
 ATOM
                                                            1.00 36.53
                                  54.999
                                           30.251 108.133
              CG1 VAL A 360
 MOTA
         2881
                                           30.393 109.755
                                                            1.00 37.06
              CG2 VAL A 360
                                  56.888
         2882
                                                            1.00 36.74
 ATOM
                                           30.690 105.928
                   VAL A 360
                                  56.886
 ATOM
         2883
               С
                                           31.881 105.712
                                                            1.00 34.90
                                  56.661
                   VAL A 360
         2884
               Ω
 ATOM
                                           29.741 105.004
                                                            1.00 35.48
                                  56.753
                   ARG A 361
         2885
              N
 ATOM
                                                            1.00 38.21
                                           30.049 103.652
                                  56.301
                   ARG A 361
ARG A 361
              CA
         2886
 ATCM
                                                            1.00 39.76
                                           28.776 102.815
                                  56.152
         2887
               CB
 ATOM
                                           28.342 102.098
                                                             1.00 39.93
                   ARG A 361
                                  57.416
         2888
               CG
  ATOM
                                                            1.00 38.68
                                           26.963 101.486
                                  57.225
                   ARG A 361
               CD
         2889
  ATCM
                                           25.940 102.525
                                                            1.00 39.72
                                   57.112
                   ARG A 361
               NE
         2890
  ATCM
                                                            1.00 38.79
                                           24.643 102.286
                                   56.952
                   ARG A 361
         2891
               CZ
  ATOM
                                                            1.00 32.40
                                           24.200 101.036
                                   56.881
               NH1 ARG A 361
         2892
  MOTA
                                           23.785 103.297
                                                             1.00 36.58
                                   56.899
               NH2 ARG A 361
         2893
  MOTA
                                                             1.00 38.98
                                           30.807 103.603
                                   54.996
                   ARG A 361
         2894
               C
  ATOM
                                                             1.00 39.07
                                           30.636 104.452
                                   54.120
                   ARG A 361
               0
  ATCM
         2895
                                           31.634 102.573
                                                             1.00 39.95
                                   54.880
                   LYS A 362
         2896
               N
  ATCM
                                                             1.00 42.73
                                           32.459 102.339
                                   53.709
                   LYS A 362
         2897
               CA
  ATCM
                                           33.301 101.078
                                                             1.00 44.92
                                   53.931
                   LYS A 362
               CB
         2898
  ATCM
                                           34.390 101.219
                                                             1.00 55.45
                   LYS A 362
                                   54.995
         2899
               CG
                                                             1.00 58.28
  ATCM
                                           33.842 101.671
                                   56.351
                   LYS A 362
               CD
         2900
  ATCM
                                            32.809 100.697
                                                             1.00 57.34
                                   56.907
                   LYS A 362
               CE
         2901
                                            32.283 101.151
  ATOM
                                                             1.00 58.75
                   LYS A 362
                                   58.224
               NZ
         2902
  ATOM
                                   52.434 31.634 102.200
                                                             1.00 40.51
                   LYS A 362
LYS A 362
               С
         2903
  ATOM
                                   51.391 31.996 102.748
                                                             1.00 36.10
               0
         2904
  ATOM
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_							
ATOM	2905	N	GLU A	363	52.506	30.527 101.469	1.00 37.79
MOTA	2906	CA	GLU A	363	51.313	29.705 101.295	1.00 40.96
	2907	CB	GLU A		51.587	28.530 100.347	1.00 43.62
MOTA							
ATOM	2908	CG	GLU A		52.729	27.616 100.739	1.00 47.01
MOTA	2909	CD	GLU A	363	52.995	26.547 99.683	1.00 51.65
ATOM	2910	OE1	GLU A	363	52.080	25.737 99.409	1.00 45.63
	2911		GLU A		54.116	26.526 99.125	1.00 48.44
MOTA							1.00 37.74
ATOM	2912	С	GLU A	1 363	50.788	29.209 102.636	
ATOM	2913	0	GLU A	. 363	49.582	29.113 102.834	1.00 34.79
ATOM	2914	N	VAL A	364	51.691	28.910 103.564	1.00 33.64
	2915	CA	VAL A		51.274	28.455 104.886	1.00 32.39
MOTA							1.00 33.99
MOTA	2916	CB	VAL A		52.484		
ATOM	2917	CG1	VAL A	364	52.018	27.676 107.160	1.00 36.90
MOTA	2918	CG2	VAL A	364	53.198	26.867 105.109	1.00 29.56
ATOM	2919	С	VAL A		50.506	29.574 105.589	1.00 34.33
	2920		VAL A		49.454	29.336 106.188	1.00 29.80
MOTA		0				30.797 105.499	1.00 38.12
MOTA	2921	N	LYS A		51.027		
MOTA	2922	CA	LYS A	365	50.381	31.952 106.119	1.00 36.77
ATOM	2923	CB	LYS A	365	51.255	33.204 105.969	1.00 37.98
ATOM	2924	CG	LYS A		52.629	33.084 106.610	1.00 37.99
	2925	CD	LYS A		53.449	34.357 106.429	1.00 35.50
ATOM							1.00 40.35
ATOM	2926	CE	LYS A		54.837		
MOTA	2927	NZ	LYS A	365	55.674	35.407 106.877	1.00 43.74
MOTA	2928	С	LYS A	365	49.025	32.191 105.468	1.00 36.62
MOTA	2929	0	LYS A		48.038	32.469 106.148	1.00 33.53
	2930			366	48.968	32.073 104.147	1.00 37.05
MOTA		N				32.278 103.449	1.00 37.72
MOTA	2931	CA	ASP A		47.708		
MOTA	2932	CB	ASP A	366	47.906	32.237 101.929	1.00 40.57
ATOM	2933	CG	ASP A	A 366	48.833	33.334 101.427	1.00 43.98
ATOM	2934	ODI	ASP A	366	49.078	34.304 102.176	1.00 38.51
			ASP A		49.297	33.235 100.269	1.00 41.96
ATOM	2935					31.238 103.862	1.00 39.24
MOTA	2936	С		A 366	46.670		
ATOM	2937	0	ASP A	366	45.497	31.562 104.029	1.00 39.04
ATOM	2938	N	THR A	A 367	47.096	29.990 104.031	1.00 38.99
ATOM	2939	CA	THR 2	A 367	46.167	28.935 104.432	1.00 36.80
		CB	THR A		46.868	27.560 104.527	1.00 33.84
MOTA	2940					27.167 103.232	1.00 34.92
ATOM	2941	OG1			47.332		
MOTA	2942	CG2	THR A	A 367	45.904	26.509 105.046	1.00 35.11
ATOM	2943	С	THR A	A 367	45.532	29.257 105.786	1.00 36.58
ATOM	2944	0	THR A	A 367	44.307	29.202 105.931	1.00 30.18
ATOM	2945	N		368	46.363	29.581 106.776	1.00 35.32
				A 368	45.850	29.926 108.095	1.00 35.46
MOTA	2946	CA				30.169 109.077	1.00 34.03
MOTA	2947	CB	LEU A		46.997		
MOTA	2948	CG	LEU A	A 368	47.545	28.925 109.794	1.00 39.04
MOTA	2949	CD1	LEU A	A 368	46.449	28.358 110.688	1.00 37.35
ATOM	2950	CD2	LEU 2	A 368	48.014	27.871 108.797	1.00 39.52
	2951	c		A 368	44.957	31.156 107.994	1.00 38.12
ATOM				A 368	43.968	31.277 108.719	1.00 31.70
ATOM	2952	0					1.00 40.45
ATOM	2953	N		A 369	45.307	32.063 107.086	
MOTA	2954	CA	GLU A	A 369	44.509	33.261 106.866	1.00 45.36
ATOM	2955	CB	GLU A	369	45.128	34.126 105.765	1.00 47.38
	2956	CG		A 369	46.020	35.228 106.283	1.00 53.81
ATOM				A 369	45.227	36.306 106.996	1.00 59.97
MOTA	2957	CD					1.00 60.65
ATOM	2958		GLU A		45.846	-	
MOTA	2959	OE2	GLU Z	A 369	43.980	36.211 107.016	1.00 63.69
MOTA	2960	С	GLU A	A 369	43.100	32.865 106.466	1.00 43.23
ATOM	2961	ō		A 369	42.130	33.283 107.095	1.00 44.62
			TVC	a 370	42.983	32.057 105.417	1.00 40.34
MOTA	2962	И				31.631 104.977	1.00 43.36
ATOM	2963	CA		A 370	41.666		1 00 44 70
ATOM	2964	CB		A 370	41.738	30.773 103.704	1.00 44.79
ATOM	2965	CG	LYS .	A 370	42.032	31.546 102.419	1.00 48.93
	2966	CD		A 370	43.503	31.514 102.019	1.00 51.41
ATOM			IVE	A 370	43.921	30.116 101.561	1.00 51.14
ATOM	2967	CE	DID.	2 2 2 2 A		30.062 101.091	1.00 50.34
ATOM	2968	ΝZ	LYS	A 370	45.339	30.062 101.051	
· ATOM	2969	С		A 370	40.959	30.848 106.069	1.00 43.09
ATOM	2970	0	LYS	A 370	39.745	30.977 106.248	1.00 41.34

Figure 18-46

30.037 106.802 1.00 39.56 41.715 ALA A 371 2971 N ATOM 1.00 43.57 29.238 107.861 41.120 ALA A 371 2972 CA MOTA 1.00 39.11 28.440 108.594 42.193 ALA A 371 2973 CB ATOM 30.132 108.837 1.00 46.10 40.365 ALA A 371 C 2974 ATOM 1.00 46.07 29.829 109.210 39.230 ALA-A 371 0 2975 1.00 46.62 MOTA 31.239 109.227 40.981 LYS A 372 2976 И ATOM 1.00 48.18 32.178 110.192 40.391 LYS A 372 CA 297,7 MOTA 32.698 109.664 1.00 51.67 39.052 LYS A 372 2978 С MOTA 1.00 53.21 33.318 110.432 LYS A 372 38.294 2979 0 ATOM 1.00 47,22 33.364 110.413 41.334 LYS A 372 CB 2980 ATOM 1.00 20.00 32.949 110.510 42.804 LYS A 372 2981 CG MOTA 1.00 20.00 34.131 110.752 43.746 LYS A 372 2982 CD ATOM 1.00 20.00 45.216 33.715 110.849 LYS A 372 CE ATOM 2983 34.850 111.081 1.00 20.00 46.121 LYS & 372 NZ MOTA 2984 1.00 57.71 32.476 108.397 38.751 ALA A 373 2985 N MOTA 1.00 58.67 32.933 107.806 37.492 ALA A 373 2986 CA ATOM 1.00 57.19 33.632 106.480 37.758 2987 ALA A 373 CB 1.00 59.58 MOTA 31.773 107.594 36.524 ALA A 373 2988 C MOTA 31.797 108.205 1.00 60.89 35.432 ALA A 373 2989 0 MOTA 1.00 60.10 30.853 106.822 36.870 OXT ALA A 373 2990 MOTA 1.00 55.77 56.836 54.881 -4.431 ALA B CB 3014 MOTA 1.00 57.58 56.480 53.960 -2.1372 3015 C ALA B MOTA 1.00 56.75 -1.720 57.131 54.920 ALA B 2 0 MOTA 3016 1.00 58.22 -3.672 54.557 54.263 2 ALA B 3017 N MOTA 1.00 58.47 56.008 53.914 -3.584 2 ALA B CA 3018 ATOM 1.00 52.79 -1.376 56.151 52.919 3 LYS 3 3019 N MOTA 1.00 49.68 56.543 0.022 52.855 3 LYS 3 3020 CA MOTA 1.00 53.14 0.700 55.896 51.643 LYS 3 3 3021 CB 1.00 53.37 MOTA 54.377 0.785 51.751 LYS B 3 3022 ÇG MOTA 53.786 1.00 55.40 1.681 50.685 LYS B 3 CD 3023 ATOM 1.00 59.51 52.277 1.783 50.808 3 CE LYS B 3024 MOTA 1.00 56.88 52.140 51.884 2.323 LYS B 3 NZ3025 MOTA 1.00 46.83 58.059 0.238 52.849 3 C LYS B 3026 MOTA 1.00 41.63 -0.607 58.830 52.389 3 LYS B 3027 0 ATOM 1.00 41.46 58.467 1.385 53.376 VAL 3 4 N 3028 1.00 40.85 ATOM 59.871 1.751 4 53.483 VAL 3 3029 CA MOTA 1.00 39.55 60.163 2.288 54.893 VAL B 4 CB 3030 ATOM 1.00 41.23 61.648 2.541 55.070 4 VAL B 3031 CG1 1.00 38.96 ATOM 59.652 1.306 55.916 VAL B 4 3032 CG2 MOTA 1.00 38.92 60.230 52.451 2.813 VAL B 4 3033 C 1.00 42.80 MOTA 3.916 59.691 52.472 4 E- LAV 3034 0 1.00 34.90 MOTA 61.157 2.479 51.559 5 LYS B ATOM 3035 И 1.00 31.22 61.558 3.396 50.501 5 LYS B CA 3036 ATOM 1.00 33.76 2.796 61.215 49.133 5 LYS B 3037 $\cdot CB$ ATOM 1.00 36.60 59.726 2.623 48.841 5 LYS B CG ATOM 3038 1.00 41.48 59.032 3.964 5 48.667 LYS B 3039 CD MOTA 1.00 43.62 57.577 3.803 5 48.234 LYS B 3040 CE 56.781 63.038 1.00 42.53 ATOM 3.025 49.215 5 NZ LYS 3 3041 1.00 32.67 MOTA 3.749 50.512 5 LYS B 3042 C 63.878 ATOM 1.00 25.78 51.012 2.995 LYS B 5 3043 0 MOTA 1.00 27.07 63.343 4.906 49.937 LEU B 6 3044 N MOTA 1.00 31.09 64.712 5.379 49.821 LEU B 6 CA 3045 1.00 30.13 MOTA 64.896 50.596 6.696 6 CB LEU B 1.00 28.09 3046 ATOM 66.285 7.340 50.691 6 LEU B ·CG ATOM 3047 1.00 38.87 66.728 49.333 7.827 6 CD1 LEU B 3048 1.00 24.87 ATOM 67.282 6.338 51.248 CD2 LEU B 6 3049 1.00 29.52 MOTA 5.594 64.924 48.324 6 3050 C LEU B MOTA 1.00 33.36 64.149 6.287 47.669 6 LEU B 3051 0 1.00 28.02 ATOM 65.960 4.975 47.777 7 ILE B N 1.00 23.83 MOTA 3052 66.250 5.111 46.361 7 ÇA ILE B 3053 1.00 25.11 ATOM 3.761 66.670 45.736 ILE B CB 3054 1.00 23.59 ATOM 67.127 44.309 3.974 CG2 ILE B 3055 1.00 31.00 MOTA 65.477 2.794 45.690 CG1 ILE B 3056 64.906 1.00 38.60 ATOM 2.406 47.021 7 CD1 ILE B 3057 1.00 26.49 ATOM 67.363 6.130 7 46.179 ILE B 3058 С 1.00 26.68 MOTA 68.430 46.766 6.005 ILE B 0 3059

MOTA

ATOM	3060	N	GLY B	8		45.372	7.151	67.106	1.00 29.51
	3061	CA	GLY B	8		45.151	8.170	68.117	1.00 30.28
ATOM									1.00 28.79
ATOM	3062	С	GLY B	8		44.217	9.273	67.667	
ATOM	3063	0	GLY B	8		43.629	9.207	66.590	1.00 19.70
	3064	N	THR B	9		44.088	10.291	68.509	1.00 26.46
MOTA									1.00 29.37
ATOM-	3065	CY	THR B	9		43.234	11.438	68.238	
ATOM	3066	CB	THR B	9		41.748	11.064	68.311	1.00 32.64
	3067	OG1	THR B	9		40.959	12.253	68.218	1.00 30.35
Mota									1.00 33.42
ATOM	3068	CG2	THR B	9		41.431	10.383	69.637	
ATOM	3069	С	THR B	9		43.479	12.496	69.302	1.00 33.42
ATOM	3070	0	THR B	9		43.884	12.173	70.416	1.00 30.46
						43.228	13.754	68.961	1.00 32.05
ATOM	3071	N	LEU B	10					
ATOM	3072	CA	LEU B	10	•	43.396	14.840	69.914	1.00 34.75
ATOM	3073	CB	LEU B	10		43.381	16.189	69.190	1.00 38.02
	3074	CG	LEU B	10		44.605	16.578	68.355	1.00 40.82
MOTA						44.961	15.472	67.394	1.00 43.62
ATOM	3075	CDI		10					
ATOM	3076	CD2	LEU B	10		44.314	17.869	67.605	1.00 34.99
ATOM	3077	С	LEU B	10		42.272	14.809	70.945	1.00 34.25
			LEU B	10		42.415	15.348	72.042	1.00 33.13
ATOM	3078	0					14.169	70.595	1.00 30.61
MOTA	3079	N	ASP B	11		41.158			
ATOM	3080	CA	ASP B	11		40.011	14.098	71.501	1.00 33.08
ATOM	3081	CB	ASP B	11		38.928	13.167	70.945	1.00 37.57
	3082	CG	ASP B	11		38.372	13.643	69.621	1.00 43.14
MOTA						38.013		69.525	1.90 42.22
ATOM	3083		ASP B	11			14.834		
MOTA	3084	OD2	ASP B	11		38.281	12.825	68.681	1.00 45.58
ATOM	3085	С	ASP B	11		40.358	13.654	72.919	1.00 32.19
	3086	O	ASP B	11		39.688	14.053	73.875	1.00 23.44
ATOM						41.386	12.822	73.066	1.00 28.02
atom	3087	N	TYR B	12					1.00 32.00
MOTA	3088	CA	TYR B	12		41.770	12.373	74.402	
ATOM	3089	CB	TYR B	12		43.011	11.476	74.363	1.00 28.67
ATOM	3090	CG	TYR B	12	•	42.821	10.108	73. 73 7	1.00 25.33
				12		43.338	9.823	72.475	1.00 23.74
MOTA	3091	CD1	TYR B					71.924	1.00 22.85
ATOM	3092	CE1	TYR B	12		43.235	8.546		
ATOM	3093	CD2	TYR B	12		42.183	9.077	74.436	1.00 21.93
MOTA	3094	CE2	TYR B	12		42.074	7.793	73.889	1.00 21.99
	3095	CZ	TYR B	12		42.605	7.538	72.640	1.00 22.99
ATOM						42.532	6.273	72.109	1.00 18.79
MOTA	3096	OH	TYR B	12					
MOTA	3097	C	TYR B	12		42.054	13.567	75.319	
MOTA	3098	0	TYR B	12		41.986	13.450	76.542	1.00 23.85
ATOM	3099	N	GLY B	13		42.374	14.710	74.720	1.00 26.96
				13		42.658	15.900	75.501	1.00 34.92
ATOM	3100	CA	GLY B						1.00 36.82
MOTA	3101	С	GLY B	13		41.452	16.396	76.277	
ATOM	3102	0	GLY B	13		41.580	17.228	77.176	1.00 34.10
ATOM	3103	N	LYS B	14		40.279	15.875	75.929	1.00 37.23
		ĊA	LYS B	14		39.031	16.247	76.584	1.00 41.77
ATOM	3104						16.406	75.537	1.00 45.82
ATOM	3105	CB	LYS B	14		37.925			
ATOM	3106	CG	LYS B	14		38.110	17.585	74.579	1.00 51.38
ATOM	3107	CD	LYS B	14		37.805	18.939	75.241	1.00 57.78
MOTA	3108	CE	LYS B	14		38.752	19.285	76.388	1.00 58.82
						38.387	20.568	77.070	1.00 55.06
ATOM	3109	NZ	LYS B	14					1.00 39.50
ATOM	3110	С	LYS B	14		38.591	15.226	77.627	
ATOM	3111	0	LYS B	14		37.546	15.385	78.252	1.00 35.54
ATOM	3112	N	TYR B	15		39.395	14.186	77.815	1.00 40.97
				15		39.070	13.128	78.768	1.00 44.15
MOTA	3113	CA	TYR B					77.990	1.00 44.42
ATOM	3114	CB	TYR B	15		38.863	11.827		
ATCM	3115	CG	TYR B	15		37.850	11.972	76.876	1.00 42.02
ATOM	3116	CD1		15		38.064	11.389	75.634	1.00 41.06
		CEI		15		37.138	11.530	74.603	1.00 42.76
ATOM	3117					36.678	12.703	77.065	1.00 42.99
ATOM	3118	CD2		15					1.00 43.30
ATOM	3119	CE2	TYR B	15		35.748	12.851	76.048	
ATOM	3120	CZ	TYR B	15		35.984	12.261	74.816	1.00 45.49
	3121	он	TYR B	15		35.066	12.403	73.801	1.00 45.69
atom			TYR B	15		40.151	12.944	79.838	1.00 43.48
atom	3122	C				40.519	11.819	80.167	1.00 41.20
ATOM	3123	0	TYR B						1.00 43.01
ATCM	3124	N	ARG B			40.647	14.052	80.381	
ATOM	3125	CA	ARG B	16		41.686	14.012	81.410	1.00 43.70

	2125	CD	SEC B	16	42.250	15.410	81.663	1.00 49.13
MOTA	3126		ARG B		42.656	16.197	80.447	1.00 54.22
MOTA	3127	-	ARG B	16		15.624	79.751	1.00 55.13
MOTA	3128	_	ARG B	16	43.858	16.549	78.718	1.00 62.87
ATOM	3129	NE	ARG B	16	44.303		78.951	1.00 64.92
ATOM	3130	CZ	ARG B	16	44.628	17.818		1.00 65.86
ATOM	3131	NHl	ARG B	16	44.556	18.308	80.182	1.00 67.15
ATOM	3132		ARG B	16	45.022	18.600	77.954	
	3133	С	ARG B	16	41.093	13.531	82.728	1.00 42.97
ATOM	3134	ō	ARG B	16	39.882	13.593	82.927	1.00 38.44
MOTA		N	TYR B	17	41.949	13.056	83.628	1.00 39.36
MOTA	3135		TYR B	17	41.494	12.637	84.945	1.00 37.67
MOTA	3136	CA		17	42.500	11.679	85.584	1.00 31.69
MOTA	3137	CB	TYR B		42.413	10.250	85.087	1.00 28.00
ATOM	3138	CG	TYR B	17 17	42.530	9.944	83.732	1.00 22.89
ATOM	3139	CD1	TYR B		42.502	8.618	83.287	1.00 21.42
MOTA	3140	CE1	TYR B	17	42.258	9.196	85.984	1.00 24.67
MOTA	3141	CD2	TYR B	17	42.239	7.873	85.556	1.00 24.48
MOTA	3142	CE2	TYR B	17	42.225	7.587	84.210	1.00 27.13
ATOM	3143	CZ	TYR B	17		6.271	83.796	1.00 19.94
ATOM	3144	OH	TYR B	17	42.371	13.927	85.765	1.00 38.94
MOTA	3145	С	TYR B	17	41.377	14.951	85.391	1.00 39.65
ATOM	3146	0	TYR B	17	41.947	13.893	86.891	1.00 41.27
ATOM	3147	N	PRO B	18	40.647		87.462	1.00 43.62
ATOM	3148	CD	PRO B	18	39.958	12.728	87.762	1.00 45.33
ATOM	3149	CA	PRO B	18	40.448	15.058	88.928	1.00 44.09
ATOM	3150	CB	PRO B	18	39.648	14.473	88.920	1.00 49.22
ATOM	3151	CG	PRO B	18	40.096	13.015	88.933	1.00 45.22
ATOM	3152	С	PRO B	18	41.702	15.809	88.221	1.00 45.44
ATOM	3153	0	PRO B	18	42.789	15.244	88.317	1.00 45.44
ATOM	3154	N	LYS B	19	41.506	17.095	88.507	1.00 48.42
ATOM	3155	CA	LYS B	19	42.535	18.040	88.952	
	3156	CB	LYS B	19	41.873	19.122	89.814	1.00 56.35
MOTA	3157	CG	LYS B	19	40.630	18.657	90.563	1.00 65.69
ATOM	3158	CD	LYS B	19	40.894	17.441	91.423	1.00 68.96
ATOM	3159	CE	LYS B	19	39.602	16.882	91.999	1.00 71.85
MOTA	3160	NZ	LYS B	19	39.825	15.603	92.731	1.00 72.79
MOTA		C	LYS B	19	43.830	17.593		1.00 48.62
MOTA	3161 3162	Ö	LYS B		44.912	18.009	89.235	1.00 49.04
MOTA	3163	N	ASN B		43.745	16.775		1.00 43.99
MOTA		CA	ASN B		44.957	16.356	91.375	1.00 43.86
ATOM	3164	CB	ASN B	_	44.740	16.440		1.00 45.92
MOTA	3165	CG	ASN B		44.418	17.848		1.00 49.44
ATOM	3166	OD			45.194	18.779	93.138	1.00 47.72
ATOM	3167	ND:			43.268	18.011		
MOTA	3168		ASN B		45.460	14.960	91.008	
ATOM	3169		ASN B		46.496	14.52		
ATCM	3170		HIS B		44.729	14.274	1 90.140	
ATOM	3171				45.091		8 € . 723	1.00 33.57
atom	3172				43.948		87.924	1.00 28.67
ATOM	3173				44.068			1.00 32.14
MOTA	3174		2 HIS E		44.779		6 87.867	1.00 26.15
ATCM	3175		2 715 5		43.43	9.91	7 89.578	
ATOM	3176	ם או	1 HIS E		43.74			1.00 23.65
MOTA	3177		1 HIS E		44.56			7 1.00 29.71
ATOM			2 HIS F		46.34			2 1.00 29.06
ATOM			HIS I		46.53			1.00 24.86
MOTA		_	HIS!		47.22			5 1.00 30.50
ATOM	3181		PRO I		47.18			6 1.00 31.51
ATOM	3182			B 22	48.44			1 1.00 29.58
ATCM	3183				49.05			6 1.00 33.72
ATOM	318				43.65			4 1.00 31.07
ATCM					48.17			8 1.00 28.52
ATOM	318		PRO		48.17			2 1.00 31.85
ATCM		7 0	PRO					
ATOM	1 318				47.03 46.68		-	
ATOM					40.00	3 10.14		
ATOM					45.93			
A10.0			G LEU	B 23	46.76	8.85	,_ 04.33	

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					•			
M	3192	CD1	LEU B	23	45.868	7.628	84.402	1.00 24.94
M	3193	CD2	LEU B	23	47.805	8.905	83.446	1.00 24.80
M	3194	С	LEU B	23	45.891	12.638	84.367	1.00 27.95
	3195	Š	LEU B	23	45.166			
М						12.528	83.373	1.00 24.42
M	3196	:1	LYS B	24	46.011	13.793	85.018	1.00 31.01.
M	3197	CA	LYS B	24	45.261	14.946	84.530	1.00 29.40
M	3198	ÇВ	LYS B	24	44.934	15.923	85.665	1.00 33.03
M	3199	ĊG	LYS B	24	45.979	16.969	85.999	1.00 33.54
				24				
M	3200	CD	LYS B		47.300	16.397	86.422	1.00 39.10
Mı	3201	CE	LYS B	24	48.109	17.466	87.152	1.00 45.49
ıM	3202	NZ	LYS B	24	48.224	18.737	86.380	1.00 45.95
ıΜ	3203	С	LYS B	24	46.039	15.653	83.425	1.00 30.02
ıM	3204	Э	LYS B	24	45.508	16.523	82.736	1.00 28.82
	3205	Ŋ	ILE B	25	47.298			
M						15.262	83.246	1.00 25.93
)M	3206	CA	ILE B	25	48.139	15.858	82.212	1.00 29.48
M	3207	CB	ILE B	25	49.541	15.528	82.409	1.00 33.61
)M	3208	CG2	ILE B	25	50.126	16.033	83.775	1.00 32.27
)M	3209	CG1	ILE B	25	49.851	14.014	82.263	1.00 28.17
)M	3210	CD1		25	51.310	13.584	82.188	1.00 36.32
)M	3211	2	ILE B	25	47.784	15.318	80.834	1.00 30.08
)M	3212	0	ILE B	25	47.263	14.210	80.704	1.00 25.37
)M	3213	71	PRO B	26	48.064	16.101	79.783	1.00 29.19
M(3214	CD	PRO B	26	48.650	17.448	79.770	1.00 32.47
MC	3215	CA	PRO B	26	47.782	15.673	78.413	1.00 29.52
MC	3216	CB	PRO B	26	48.103	16.921	77.593	1.00 29.84
MC	3217	CG	PRO B	26	47.930	18.046	78.599	1.00 36.40
MC	3218	c	PRO B	26	48.789	14.561	78.137	1.00 27.64
MC	3219	0	PRO B	26	49.920	14.620	78.629	1.00 23.08
MC	3220	M	ARG B	27	48.403	13.557	77.360	1.00 23.09
MC	3221	CA	ARG B	27	49.326	12.469	77.072	1.00 23.00
MC	3222	CB	ARG B	27	48.987	11.264	77.962	1.00 26.21
MC	3223	CG	ARG B	27	49.101	11.617	79.449	1.00 17.03
MC	3224	CD	ARG B	27	48.663	10.507	80.416	1.00 26.83
MC	3225	NE	ARG B	27	49.586	9.375	80.502	1.00 22.99
MC	3226	CZ	ARG B	27	49.444	8.220	79.856	1.00 25.06
MC	3227	NH1	ARG B	27	48.408	8.022	79.059	1.00 17.74
MC	3228	NH2	ARG B	27	50.336	7.253	80.027	1.00 23.38
MC	3229	С	ARG B	27	49.329	12.097	75.595	1.00 22.54
MC	3230	J.	ARG B	27	50.214	12.526	74.852	1.00 21.86
MC	3231	N	VAL E	28	48.352	11.318	75.148	1.00 20.64
MC	3232	CA	VAL B	28	48.337	10.954	73.739	1.00 26.57
OM	3233	CB	VAL B	28	47.242	9.917	73.424	1.00 30.92
OM	3234	CG1	VAL B	28	47.195	9.645	71.925	1.00 27.04
	3235	CG2			47.535		74.172	
OM				28		8.616		1.00 25.45
OM	3236	Ξ	VAL B	28	48.150	12.189	72.866	1.00 28.02
OM	3.737	Э	VAL B	28	48.780	12.311	71.808	1.00 30.88
MO	3.38	N	SER B	29	47.298	13.112	73.304	1.00 24.30
OM	3139	CA	SER B	29	47.082	14.326	72.523	1.00 29.48
OM	3240	CB	SER B	29	45.939	15.169	73.110	1.00 31.72
OM	3241	ЭG	SER 3	29	46.218	15.614	74.424	1.00 34.55
	3242	c	SER B	29	48.379	15.125	72.514	1.00 30.81
OM								
OM	3243	3	SER B	29	48.680	15.820	71.545	1.00 28.85
'OM	3244	74	LEU B	30	49.157	15.003	73.589	1.00 29.63
'OM	.3245	CA	LEU B	30	50.427	15.721	73.679	1.00 31.59
'OM	3246	CB	LEU B	30	51.046	15.593	75.079	1.00 29.49
'OM	3247	CG	LEU B	30	52.066	16.660	75.513	1.00 34.37
MO'	3248		LEU B	30	52.937	16.083	76.610	1.00 30.15
MO'	3249	CD2	LEU B	30	52.951	17.098	74.357	1.00 32.90
		2		30	51.371	15.085	72.672	
MO'	3250		LEU B					1.00 25.90
MO'	3251	2	LEU B	30	52.052	15.777	71.913	1.00 25.10
'CM	3252	М	LEU B	31	51.404	13.756	72.675	1.00 22.10
MO'	3253	CA	LEU B	31	52.268	13.013	71.764	1.00 25.52
CM	3254	CB	LEU B	31	51.966	11.514	71.842	1.00 26.41
COM	3255	CG	LEU B	31	53.066	10.524	71.441	1.00 28.93
OM	3256		LEU B	31	52.425	9.198	71.042	1.00 23.69
MOT	3257		LEU B	31	53.873	11.049	70.300	1.00 30.41
.011	J . J.		550 5	-	55.0.5			2.00 -0

ATOM	3258	С	LEU 3	31		52.010	13.489	70.335	1.00 25.38
MOTA	3259		LEU B	31		52.940	13.851	69.614	1.00 21.03
MOTA	3260	N	LEU B	32		50.741	13.481	69.933	1.00 21.27
MOTA	3261		LEU 3	32		50.364	13.899	68.585	1.00 27.91 1.00 26.60
MOTA	3262		LEU B	32		48.841	13.798	68.408	1.00 26.60 1.00 27.30
MOTA	3263		LEU 3	32		48.195	12.419	68.614	1.00 27.30
MOTA	3264	CD1 -		32		46.699	12.504	68.321	1.00 26.90
MOTA	3265	CD2		32		48.837	11.391	67.708 68.242	1.00 26.07
MOTA	3266		TEO 3 ·			50.835	15.317 15.533	67.205	1.00 22.45
ATOM	3267		LEU 3	32		51.458 50.545	16.282	69.111	1.00 28.19
MOTA	3268		ARG 3	33 33	-	50.962	17.660	68.865	1.00 31.77
MOTA	3269		ARG B	33		50.395	18.601	69.930	1.00 34.22
MOTA	3270 3271	CB CG	ARG B	33		48.887	18.740	69.904	1.00 40.33
MOTA MOTA	3272	CD	ARG B	33		48.420	19.713	70.970	1.00 47.67
ATOM	3273	NE	ARG B	33		46.977	19.931	70.924	1.00 56.24
MOTA	3274	CZ	ARG B	33		46.330	20.505	69.912	1.00 60.10
ATOM	3275	NH1	ARG B	33		46.997	20.929	68.845	1.00 63.11
MOTA	3276	NH2	ARG B	33		45.011	20.652	69.965	1.00 63.81 1.00 30.12
MOTA	3277	С	ARG 3	33		52.476	17.791	68.852	1.00 30.12
MOTA	3278	0	ARG B	33		53.028	18.580	68.097 69.694	1.00 30.20
MOTA	3279	N	PHE 3	34		53:147	17.012 17.060	69.774	1.00 29.42
MOTA	3280	CA	PHE B	34		54.600 55.096		70.920	1.00 30.46
MOTA	3281	CB	PHE B	. 34 34		56.556	16.358	71.248	1.00 28.56
ATOM	3282	CG	PHE B	34		57.001	17.515	71.885	1.00 26.92
MOTA	3283 3284	CD1	PHE B	34		57.481	15.373	70.932	1.00 28.88
ATOM ATOM	3285	CE1	PHE 3	34		58.346	17.684	72.206	1.00 28.15
ATOM	3286	CE2	PHE B	34		58.831	15.530	71.246	1.00 31.47
ATOM	3287	CZ	PHE 3	34		59.265	16.689	71.887	1.00 28.15
MOTA	3288	C	PHE B	34		55.202	16.583	68.460	1.00 33.78
ATOM	3289	0	PHE 3	34		56.049	17.259	67.873	1.00 33.71 1.00 28.65
MOTA	3290	N	LYS B	35		54.770	15.413	67.999	1.00 28.65 1.00 34.33
ATOM	3291	CA	LYS 3	35		55.294	14.880 13.509	66.753 66.454	1.00 34.33
MOTA	3292	CB	LYS B	35		54.684 55.141	12.423	67.414	1.00 34.93
ATOM	3293	CG	LYS B	35 35		54.580	11.066	67.047	1.00 41.43
MOTA	3294	CD	LYS B	35		53.070	11.004	67.205	1.00 44.04
ATOM	3295 3296	CE NZ	LYS 3	35		52.335	11.984	66.345	1.00 60.09
MOTA MOTA	3297	C	LYS 3	35		55.015	15.842	65.608	1.00 35.78
ATOM	3298	ō	LYS 3	35		55.869	16.061	64.752	1.00 33.39
ATOM	3299	N	ASP B	36		53.823	16.426	65.602	1.00 32.32
ATOM	3300	CA	ASP B	36		53.468	17.365	64.552	1.00 36.31 1.00 42.56
ATOM	3301	CB	ASP 3	36		52.015	17.800	64.698 63.661	1.00 42.56 1.00 43.03
ATOM	3302	CG	ASP B			51.617	18.822 18.544	62.461	1.00 43.03
MOTA	3303		ASP 3			51.812 51.111	19.897	64.043	1.00 4.34
MOTA	3304		ASP B			54.371	18.590	64.578	1.00 6.14
ATOM	3305	С	ASP 3			54.764		63.534	1.00 32.40
MOTA	3306	O N	ALA B			54.694	19.061	65.777	1.00 34.80
ATOM	3307 3308	CA	ALA B			55.554	20.226	65.924	1.00 36.82
ATOM ATOM	3309	CB	ALA B			55.599	20.659	67.383	1.00 38.54
ATOM	3310	c	ALA B			56.959	19.901	65.429	1.00 37.66
ATOM	3311	ō	ALA B			57.675		64.950	1.00 30.56
ATOM	3312	N	MET B			57.346		65.541	1.00 37.42
ATOM	3313	CA	MET E			58.670	18.192	65.107	1.00 36.25 1.00 36.44
ATOM	3314	CB	MET B			59.158	17.059	66.013 67.474	1.00 30.44
ATOM	3315	CG	MET B	38		59.341			1.00 37.00
MOTA	3316	SD	MET B			60.841			
ATOM	3317	CE	MET E			62.093 58.639			
MOTA	3318	C	MET E			59.659			1.00 32.69
ATOM	3319	0	MET E			57.470			1.00 35.82
ATOM	3320		ASN E			57.321			1.00 42.75
ATOM	3321	CA CB	ASN E			58.156	18.108	60.688	1.00 46.20
ATOM	3322 3323		ASN I	-		57.670			1.00 47.57
atom	2223					-			

ATOM	3324	ODI	ASN B	39		56.524	19.801	60.212	1 00	48.78
MOTA	3325	ND2	ASN B	39		58.540	20.486	60.933		46.52
ATOM	3326	С	ASN B	39		57.759	15.804	61.569	1.00	39.12
ATOM	3327	0	ASN B			58.465	15.416	60.639		35.75
MOTA	3328	N	LEU B	40		57.332	14.997	62.535	1.00	34.64
ATOM	3329	CA	LEU B	40		57.700	13.590	62.556	1.00	35.10
ATOM	3330	CB	LEU B			58.347	13.248	63.898	1.00	35.97
ATOM	3331	CG	LEU B	40		59.595	14.073	64.227	1.00	36.21
MOTA	3332	CD1	LEU B	40		60.148	13.648	65.573	1.00	36.57
	3333		-LEU B	40		60.646	13.880	63.145	1.00	36.79
ATOM										
MOTA	3334	С	LEU B			56.549	12.626	62.264	1.00	37.58
ATOM	3335	0	LEU B	40		5 6 .637	11.438	62.573	1.00	39.15
ATOM	3336	N	ILE B	41	•	55.476	13.131	61.663	1.00	36.79
							12.290		1.00	35.42
MOTA	3337	CA	ILE B			54.340		61.314		
ATOM	3338	CB	ILE B	41		53.445	11.991	62.536	1.00	35.21
ATOM	3339	CG2	ILE B	41		52.793	13.271	63.047	1.00	31.89
ATOM	3340	CG1	ILE B			52.367	10.980	62.141	1.00	32.68
ATOM	3341	CD1	ILE B			51.470	10.550	63.285	1.00	36.46
ATOM	3342	С	ILE B	41		53.492	12.937	60.229	1.00	37.52
ATOM	3343	0	ILE B	41		53.352	14.157	60.183	1.00	40.24
ATOM	3344	N	ASP B			52.943	12.114	59.345	1.00	39.55
MOTA	3345	CA	ASP B			52.094	12.615	58.273		45.30
ATOM	3346	CB	ASP B	42		52.569	12.119	56.901	1.00	45.93
ATOM	3347	CG	ASP B	42		53.972	12.584	56.564	1.00	47.09
	3348		ASP B			54.244	13.799	56.686	1.00	46.60
MOTA										
MOTA	3349	OD2	ASP B	42		54.797	11.736	56.162	1.00	45.16
ATOM	3350	С	ASP B	42		50.677	12.134	58.524	1.00	45.15
ATOM	3351	0	ASP B	42		50.467	11.051	59.069	1.00	47.06
ATOM	3352	N	GLU B			49.707	12.944	58.121	1.00	48.13
ATOM	3353	CA	GLU B			48.303	12.618	58.312	1.00	50.50
ATOM	3354	CB	GLU B	43		47.441	13.637	57.571	1.00	53.54
ATOM	3355	CG	GLU B	43		45.961	13.505	57.840	1.00	59.52
ATOM	3356	CD	GLU B	43		45.155	14.518	57.065	1.00	64.03
						43.914	14.535	57.215		68.54
ATOM	3357	OE1			•					
ATOM	3358	OE2	GLU B			45.765	15.298	56.301	1.00	66.95
MOTA	3359	С	GLU B	43		47.972	11.205	57.836	1.00	47.81
ATOM	3360	0	GLU B	43		47.092	10.547	58.390	1.00	49.67
ATOM	3361	N	LYS B			48.690	10.744	56.817	1.00	46.21
								56.251		48.28
ATOM	3362	CA	LYS B			48.484	9.409			
MOTA	3363	CB	LYS B	44		49.207	9.311	54.894		49.96
MOTA	3364	CG	LYS B	44		49.639	7.903	54.470	1.00	52.18
ATOM	3365	CD	LYS B	44		50.970	7.532	55.127	1.00	61.03
						51.399	6.095	54.844	1.00	62.80
ATOM	3366	CE	LYS B							
ATOM	3367	NZ	LYS B	44		50.511	5.098	55.510	1.00	65.34
MOTA	3368	С	LYS B	44		48.899	8.249	57.161	1.00	45.92
ATOM	3369	0	LYS B	44		48.418	7.127	57.009	1.00	41.30
	3370	N	GLL B			49.797	8.517	58.100	1 00	42.18
MOTA										38.41
ATOM	3371	CA	GLU B			50.268	7.486	59.014		
ATOM	3372	CB	GLU B	45		51.684	7.812	59.468		33.73
ATOM	3373	CG	GLU B	45		52.694	7.887	58.351	1.00	37.58
ATOM	3374	CD	GLU B			53.998	8.504	58.813	1 00	34.34
						53.997	9.699	59.176		38.04
ATOM	3375		GLU B	45						
MOTA	3376	OE2	GLU B	45		55.020	7.799	58.821		33.37
ATOM	3377	С	GLU B	45		49.368	7.403	60.238	1.00	36.86
ATOM	3378	0	GLU B			49.461	6.462	61.032	1.00	34.98
						48.489	8.386	60.386		30.86
ATCM	3379	74	LEU B							
ATOM	3380	CA	LEU B			47.608	8.438	61.545		30.65
ATOM	3381	CB	LEU B	46		47.501	9.889	62.019		32.74
ATOM	3382	CG	LEU B			46.642	10.163	63.250		34.76
						47.189	9.379	64.425		32.24
ATOM	3383		LEU B							
ATOM	3384	CD2	LEU B			46.639	11.656	63.548		33.94
ATOM	3385	С	LEU B			46.212	7.861	61.318		31.36
ATOM	3386	0	LEU B	46		45.530	8.218	60.363	1.00	31.78
	3387	N	ILE B			45.801	6.957	62.203		31.18
ATOM						44.479		62.139		29.36
ATCM	3388	CY	ILE B				6.338			
ATOM	3389	CB	ILE B	47		44.564	4.802	62.258	1.00	28.62

	2200	663	** ** **	47		43.161	4.205	62.407	1.00 28.80
ATOM	3390		ILE B				4.230	61.028	1.00 29.42
MOTA	3391	CG1	ILE B	47		45.266			1.00 31.12
MOTA	3392	CD1	ILE B	47		45.419	2.722	61.054	
	3393	С	ILE B	47		43.659	6.875	63.303	1.00 32.22
MOTA						44.063	6.755	64.461	1.00 31.17
ATOM	3394	0	ILE B	47			7.475	62.999	1.00 28.39
MOTA	3395	11	LYS B	48		42.514			1.00 32.37
MOTA	3396	CA	LYS B	48		41.662	8.037	64.340	
	3397	CB	LYS B	48		40.517	8.840	63.414	1.00 36.32
MOTA				48		39.607	9.514	64.430	1.00 43.08
MOTA	3398	CG	LYS B				10.361	63.747	1.00 44:38
MOTA	3399	CD	LYS B	48		38.535			1.00 45.91
ATOM	3400	CE	LYS B	48	-	37.657	11.074	64.768	
ATOM	3401	NZ	LYS B	48		38.451	11.991	65.643	1.00 42.66
		С	LYS B	48		41.095	6.943	64.937	1.00 31.08
MOTA	3402					40.524	5.962	64.457	1.00 26.24
ATOM	3403	0	LYS B	48				66.244	1.00 27.89
MOTA	3404	N	SER B	49		41.260	7.121		1.00 25.17
ATOM	3405	CA	SER B	49		40.770	6.168	67.232	
ATOM	3406	CB	SER B	49		41.146	6.639	68.642	1.00 24.41
		OG	SER B	49		42.539	6.858	68.777	1.00 31.79
MOTA	3407-			49		39.248	6.054	67.160	1.00 29.07
ATOM	3408	С	SER B				7.034	66.879	1.00 28.47
ATOM	3409	0	SER B	49		38.565			1.00 26.13
MOTA	3410	N	ARG B	50		38.723	4.859	67.409	
ATOM	3411	CA	ARG B	50		37.278	4.658	67.430	1.00 24.24
		CB	ARG B	50		36.810	3.700	66.323	1.00 25.03
MOTA	3412			50		37.231	2.233	66.507	1.00 26.54
MOTA	3413	CG	ARG B			36.570	1.340	65.452	1.00 26.21
MOTA	3414	CD	ARG B	50				65.504	1.00 25.13
MOTA	3415	NE	ARG B	50		37.006	-0.058		
ATOM	3416	CZ	ARG B	50		36.700	-0.924	66.468	1.00 26.09
	3417	NH1		50		35.941	-0.558	67.497	1.00 23.42
MOTA				50		37.157	-2.168	66.402	1.00 23.91
MOTA	3418	NH2				36.937	4.037	68.775	1.00 23.83
MOTA	3419	C	ARG B	50				69.403	1.00 21.60
ATOM	3420	0	ARG B	50		37.782	3.392		
MOTA	3421	N	PRO B	51		35.700	4.223	69.243	
MOTA	3422	CD	PRO B	51		34.554	4.962	68.688	1.00 25.09
	3423	CA	PRO B	51		35.338	3.628	70.530	1.00 25.48
MOTA				51		33.949	4.217	70.802	1.00 26.32
MOTA	3424	CB				33.936	5.503	69.953	1.00 28.65
MOTA	3425	CG	PRO B	51				70.325	1.00 26.73
ATOM	3426	С	PRO B	51		35.264	2.118		1.00 18.87
MOTA	3427	0	PRO B	51		35.142	1.646	69.194	
ATOM	3428	N	ALA B	52		35.355	1.359	71.408	1.00 23.64
	3429	CA	ALA B	52		35.237	-0.083	71.291	1.00 23.27
ATOM			ALA B	52		35.811	-0.757	72.521	1.00 26.31
MOTA	3430	CB				33.733	-0.324	71.223	1.00 25.25
MOTA	3431	С	ALA B	52			0.515	71.677	1.00 22.78
ATOM	3432	0	ALA B	52		32.950			1.00 22.77
ATOM	3.433	N	THR B	53		33.321	-1.447	70.651	
ATOM	3434	CA	THR B	53		31.900	-1.760	70.596	1.00 26.90
	3435	CB	THR B	53		31.567	-2.732	69.456	1.00 30.00
ATOM				53		32.305	-3.950	69.642	1.00 25.59
MOTA	3436		1 THR E			31.917	-2.117	68.103	1.00 23.33
MOTA	3437	CG:		53			-2.445	71.916	1.00 30.41
MOTA	3438	, C	THR B	53		31.579			1.00 26.13
MOTA	3439	0	THR B	53		32.484	-2.917	72.609	
MOTA	3440	N	LYS B	54		30.300	-2.504	72.268	1.00 29.12
	3441	CA	LYS B			29.909	-3.140	73.514	1.00 30.24
MOTA						28.396	-3.027	73.720	1.00 32.78
MOTA	3442	CB	LYS B				-3.351		
MOTA	3443	CG	LYS B			27.947		75.268	_
MOTA	3444	CD	LYS B	54		26.445	-3.204		
ATOM	3445	CE	LYS B	54		26.008	-3.366	76.709	1.00 43.39
	3446	NZ	LYS B			26.464	-2.257	77.582	
ATOM						30.329	-4.603	73.442	1.00 29.10
ATCM	3447	Ç	LYS 3			30.779		74.430	
ATOM	3448	၁	LYS B					72.256	
ATOM	3449	N	GLU 3			30.196			
ATOM	3450		GLU 3	55		30.577			1.00 20.00
	3451					30.288	-6.965	70.579	
ATCM	7 A E C		_			30.671			1.00 33.40
atom	3452					30.453	_		1.00 38.49
	3453					30.638			
ATOM									
ATOM ATOM						30.101			

ATOM	3456	С	GLU B	55	32.06	6 -6.80	08 72.345	1.00 25.82
				55	32.42			1.00 23.83
ATOM	3457	0	GLU B					1.00 25.04
ATOM	3458	N	GLU B	56	32.93	1 - 5.93		
ATOM	3459	CA	GLU B	56	34.36	5 -6.07	79 72.093	1.00 25.30
	3460	СВ	GLU B	56	35.14	1 -5.00	3 71.334	1.00 24.31
ATOM					34.86			1.00 32.15
ATOM-	3461	CG	GLU B	56				
MOTA	3462	CD	GLU B	56	35.51	.2 -3.90		1.00 31.43
ATOM	3463	OE1	GLU B	56	35.48	6 - 2.79	59 69.568	1.00 28.54
		OE2	GLU B	56	36.01			1.00 28.89
ATOM	3464							1.00 28.88
MOTA	3465	С	.GLU B	56	34.65			
ATOM	3466	0	GLU B	56	35.45	0 -6.70	66 74.137	1.00 25.07
	3467	N	LEU B	57	33.99	6 -5.0	50 74.272	1.00 24.52
ATOM				57	34.20			1.00 27.34
MOTA	3468	CA	LEU B					1.00 22.79
ATOM	3469	CB	LEU B	57	33.41			
MOTA	3470	CG	LEU B	57	33.85	392.3 3		1.00 23.57
ATOM	3471	CD1	LEU B	57	33.00	8 -1.2	47 76.366	1.00 22.27
	3472	CD2	LEU B	57	35.34	2 -2.0	89 76.061	1.00 17.24
ATOM				57	33.78			1.00 26.92
ATOM	3473	С	LEU B					the state of the s
ATOM	3474	0	LEU B	57	34.45			1.00 24.06
MOTA	3475	N	LEU B	58	32.67	70 ~6.7	32 76.029	1.00 23.35
ATOM	3476	CA	LEU B	58	32.15	4 -7.9	31 76.674	1.00 25.60
			LEU B	58	30.71			1.00 28.50
MOTA	3477	CB	-					
ATOM	3478	CG	LEU B	58	29.73			
ATOM	3479	CD1	LEU B	58	28.32			1.00 28.93
ATOM	3480	CD2	LEU B	58	29.79	4 -6.9	45 78.157	1.00 33.44
	3481	c	LEU B	58	33.02			1.00 24.59
ATOM					32.70			1.00 19.76
MOTA	3482	0	LEU B	58				
ATOM	3483	N	LEU B	59	34.00	55 -9.0		1.00 23.99
ATOM	3484	CA	LEU B	59	34.9	38 -10.1	08 75.411	1.00 25.11
	3485	CB	LEU B	59	36.0	18 -9.7	57 74.332	1.00 21.64
ATOM				59	35.4			1.00 24.24
MOTA	3486	CG	LEU B					
MOTA	3487	CD1		59	36.5			
MOTA	3488	CD2	LEU B	59	34.9	57 -11.0		1.00 19.91
ATOM	3489	С	LEU B	59	35.6	99 -10.3	71 76.733	1.00 23.84
	3490	ō	LEU B	59	36.1	50 -11.4	89 76.992	1.00 19.39
MOTA					35.7			1.00 21.80
ATOM	3491	N	PHE B	60				1.00 23.08
MOTA	3492	CA	PHE B	60	36.4			
ATOM	3493	CB	PHE B	60	37.8			1.00 18.22
ATOM	3494	CG	PHE B	60	38.5	44 -8.9	06 80.230	1.00 21.72
	3495	CD1		60	38.9			1.00 19.23
ATOM					38.7			1.00 17.75
ATOM	3496	CD2		60				1.00 18.80
ATOM	3497	CE1	PHE B	60	39.6			
ATOM	3498	CE2	PHE B	60	39.3	84 -7.9		1.00 19.23
ATOM	3499	CZ	PHE B	60	39.8	07 -9.1	.84 82.737	1.00 16.10
	3500	c	PHE B	60	35.6		69 80.083	1.00 21.58
ATOM					35.5			
ATOM	3501	0	PHE B	60				
ATOM	3502	N	HIS B	61	35.1			1.00 20.65
ATOM	3503	CA	HIS B	61	34.3	62 -7.3	36 81.184	
ATOM	3504	CB	HIS B	61	34.4	22 -5.8	807 81.229	1.00 27.60
				61	35.8			
ATOM	3505	CG	HIS B					
ATOM	3506		HIS B	61	36.4			1.00 20.00
ATOM	3507	ND1	HIS B	61	36.6			
ATOM	3508	CE1	HIS B	61	37.8	10 -4.5	46 80.887	
	3509		HIS B	61	37.7	13 -4.4	99 82.204	1.00 36.27
ATOM								
ATOM	3510	С	HIS B	61	32.9			
ATOM	3511	0	HIS B	61	32.3			
ATOM	3512	N	THR B	62	32.2			1.00 25.25
	3513	CA	THR B	62	30.8		82.506	
ATOM				62	30.5			
ATOM	3514	CB	THR B					
ATCM	3515	QG3		62	30.7			
ATOM	3516	CG2	THR B	62	31.4			
ATOM	3517	С	THR B	62	29.9	31 -6.9	942 82.162	1.00 26.06
	3518	Õ	THR B	62	30.2			1.00 24.14
ATOM				63	28.7			
ATOM	3519	N	GLU B					
ATOM	3520	CA	GLU B	63	27.6			7.00 30.77
ATCM	3521	CB	GLU B	63	26.3	74 -7.	094 81.114	1.00 33.97
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ATOM	3522	CG ·	GLU F	3 (63		25.213	-6.210	80.667	1.00 41.12
			GLU I		63		25.189	-5.987	79.168	1.00 44.47
MOTA	3523						24.361	-5.177	78.689	1.00 42.64
MOTA	3524	-	GLU I		63					1.00 45.96
MOTA	3525	OE2	GLU I	3 (63		25.992	-6.640	78.465	
ATOM	3526	С	GLU-	3	63		27.436	-5.326	82.498	1.00 27.29
			GLU I		63		27.381	-4.118	82.252	1.00 25.13
ATOM	3527							-5.834	83.713	1.00 24.38
ATOM	3528	N	ASP I		64		27.272			
ATOM	3529	CA	ASP 1	В .	64		27.010	-5.023	84.897	
ATOM	3530	CB	ASP I	3	64		26.887	-5.944	86.112	1.00 36.30
					64		28.022	-6.935	86.198	1.00 50.77
MOTA	3531	CG	ASP 1	-				-6.540	86.630	1.00 52.71
MOTA	3532	OD1	ASP I	В	64		29.128			-
ATOM	3533	OD2	ASP :	В	64		27.812	-8.106	85.802	
ATOM	3534	С	ASP :	В	64		28.075	-3.967	85.143	1.00 26.49
			ASP		64		27.768	-2.806	85.422	1.00 18.33
MOTA	3535	0					29.332	-4.373	85.052	1.00 22.75
MOTA	3536	N	TYR		65					1.00 19.32
ATOM	3537	CA	TYR	В	65		30.420	-3.435	85.251	
MOTA	3538	CB	TYR	В	65		31.751	-4.186	85.256	1.00 16.59
	3539	CG	TYR		65		32.949	-3.285	85.366	1.00 19,19
MOTA							33.033	-2.328	86.383	1.00 21.35
ATOM	3540	CD1	TYR		65				86.489	1.00 18.32
MOTA	3541	CE1	TYR		65		34.135	-1.489		-
ATOM	3542	CD2	TYR	В	65		34.004	-3.382	84.456	1.00 18.65
	3543	CE2	TYR		65		35.116	-2.544	84.554	1.00 21.01
MOTA							35.172	-1.601	85.573	1.00 20.61
MOTA	3544	CZ	TYR		65				85.682	1.00 17.77
MOTA	3545	ОН	TYR	В	65		36.262	-0.775		
ATOM	3546	С	TYR	В	65		30.392	-2.373	84.146	1.00 22.01
	3547	o	TYR		65		30.399	-1.167	84.421	1.00 18.20
ATOM			ILE		66		30.330	-2.815	82.894	1.00 19.49
MOTA	3548	N						-1.870	81.786	1.00 19.68
ATOM	3549	CA	ILE		66	٠	30.305			1.00 23.31
ATOM	3550	CB	ILE	В	66		30.208	-2.592	80.432	
ATOM	3551	CG2	ILE	Б	66		30.200	-1.571	79.303	1.00 21.30
	3552	CG1			66		31.400	-3.541	80.260	1.00 27.67
MOTA					66		32.758	-2.839	80.291	1.00 29.29
ATOM	3553	CD1						-0.909	81.940	1.00 26.99
ATOM	3554	С	ILE		6 6		29.128			1.00 23.36
MOTA	3555	0	ILE	В	66		29.294	0.309	81.848	
ATOM	3556	N	ASN	В	67		27.939	-1.447	82.198	1.00 24.98
	3557	CA	ASN		67		26.782	-0.580	82.363	1.00 27.70
ATOM					67		25.492	-1.389	82.580	1.00 25.58
ATOM	3558	CB	ASN						81.341	1.00 26.91
ATOM	3559	CG	ASN	В	67		25.081	-2.183		1.00 31.48
MOTA	3560	OD1	ASN	В	67		25.199	-1.701	80.220	
	3561	ND2		В	67		24.572	-3.387	81.545	1.00 23.80
MOTA			ASN		67		26.982	0.401	83.513	1.00 25.34
MOTA	3562	C						1.539	83.448	1.00 22.53
ATOM	3563	0	ASN		67		26.524		84.568	1.00 23.65
ATOM	3564	N	THR	В	68		27.664	-0.031		1.00 25.25
ATOM	3565	CA	THR	В	68		27.903	0.863	85.696	
	3566	СВ	THR		68		28.516	0.119	86.891	1.00 29.08
ATOM					68		27.561	-0.826	87.396	1.00 25.94
MOTA	3567	OG1		_				1.100	88.002	1.00 22.90
MOTA	3568	CG2	THR	В	68		28.894			1.00 25.91
MOTA	3569	С	THR	₿	68		28.818	2.009	85.287	1.00 23.31
ATOM	3570	0	THR	В	68		28.576	3.156	85.661	1.00 28.47
		N	LEU		69		29.861	1.702	84.519	1.00 25.13
ATOM	3571						30.788	2.729	84.054	1.00 24.37
MOTA	3572	CA	LEU		69				83.201	1.00 21.32
ATOM	3573	CB	LEU	В	69		31.915	2.122		1.00 21.32
MOTA	3574	CG	LEU	В	69		32.960	1.231	83.889	1.00 22.33
			LEU		69		34.006	0.786	82.859	1.00 22.57
ATOM	3575						33.643	2.000	85.008	1.00 23.20
MOTA	3576	CD2			69				83.229	1.00 23.02
ATOM .	3577	С	LEU	В	69		30.036	3.764		1.00 23.02
ATOM	3578	0	LEU	В	69		30.190	4.966	83.444	1.00 18.98
	3579	N	MET		70		29.218	3.290	82.294	1.00 19.62
ATOM					70		28.449	4.181	81.434	1.00 25.87
ATOM	3580	CA	MET							
ATCM	3581	СЗ	MET		70		27.660			
ATOM	3582	CG	MET	В	70		28.531			
		SD	MET		70		27.592	1.599	78.227	
ATOM	3583		MET		70		26.922			1.00 30.20
ATOM	3584	CE								
ATOM	3585	С	MET		70		27.489	_		
ATOM	3586	0	MET	В	70		27.391			
	3587		GLU		71		26.786	4.458	83.194	1.00 28.21
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MOTA	3588	ÇA	GLU I	3	71	25.837·	5.207	84.008	1.00 27.45
ATOM	3589	CB	GLU I	В	71	25.014	4.268	84.889	1.00 30.70
ATOM	3590	CG	GLU I		71	24.072	5.005	85.832	1.00 33.61
					71	23.044	5.867	85.096	1.00 37.51
ATOM	3591	CD	GLU I					85.773	1.00 35.47
MOTA	3592		GLU I		71	22.333	6.638		
MOTA	3593	OE2	GLU 1	В	71	22.934	5.769	83.849	1.00 31.03
ATOM	3594	С	GLU I	В	71	26.559	6.209	84.887	1.00 29.15
		ō	GLU I		71	26.115	7.341	85.035	1.00 23.96
MOTA	3595						5.781	85.481	1.00 27.76
MOTA	3596	N	ALA I		72	27.671			
ATOM	3597	CA	ALA I	В	72	28.454	6.662	86.340	1.00 27.58
ATOM	3598	CB	ALA I	В	72	29.663	5.920	86.909	1.00 23.24
ATOM	3599	Ċ	ALA I		72	28.924	7.886	85.563	1.00 28.07
					72	28.895	8.999	86.079	1.00 23.22
ATOM	3600	0	ALA						1.00 26.40
MOTA	3601	N	GLU :		73	29.356	7.684	84.322	
ATOM	3602	CA	GLU :	В	73	29.846	8.801	83.529	1.00 29.06
ATOM	3603	CB	GLU	В	73	30.658	8.314	82.325	1.00 29.48
	3604	CG	GLU		73	31.162	9.466	81.443	1.00 31.00
ATOM					73	31.938	9.009	80.216	1.00 34.37
MOTA	3605	CD	GLU					80.356	1.00 28.41
ATOM	3606	OE1	GLU		73	33.059	8.461		
ATOM	3607	CE2	GLU	В	73	31.419	9.203	79.100	1.00 30.59
ATOM	3608	С	GLU	В	73	28.744	9.734	83.045	1.00 31.92
	3609	ō	GLU		73	28.894	10.951	83.104	1.00 35.69
MOTA						27.633	9.186	82.570	1.00 33.53
ATOM	3610	N	ARG		74			82.081	1.00 38.64
MOTA	3611	CA	ARG		74	26.583	10.067		
ATOM	3612	CB	ARG	В	74	25.456	9.280	81.403	1.00 39.90
ATOM	3613	CG	ARG	В	74	24.448	8.706	82.363	1.00 46.67
	3614	CD	ARG		74	23.174	8.311	81.646	1.00 47.53
ATOM					74	22.076	8.153	82.594	1.00 55.58
ATOM	3615	NE	ARG					83.362	1.00 56.04
MOTA	3616	CZ	ARG		74	21.609	9.136		
MOTA	3617	NH1	ARG	В	74	22.142	10.351	83.297	1.00 58.93
MOTA	3618	NH2	ARG	В	74	20.601	8.910	84.192	1.00 53.62
ATOM	3619	C	ARG		74	26.008	10.914	83.222	1.00 35.84
		ō	ARG		74	25.778	12.107	83.048	1.00 29.44
ATOM	3620					25.794	10.302	84.386	1.00 31.02
ATOM	3621	Ŋ	SER		75				
MOTA	3622	CA	SER	В	75	25.243	11.014	85.539	
ATOM	3623	CB	SER	В	75	24.592	10.038	86.510	1.00 34.47
ATOM	3624	OG	SER	В	75	25.581	9.228	87.123	1.00 34.33
	3625	Ċ	SER		75	26.339	11.754	86.288	1.00 35.42
ATOM					75	26.060	12.555	87.180	1.00 33.45
ATOM	3626	0	SER					85.922	1.00 33.25
ATOM	3627	Ŋ	GLN		76	27.584	11.473		
ATOM	3628	CA	GLN	В	76	28.739	12.082	86.565	1.00 35.61
ATOM	3629	CB	GLN	В	76	28.818	13.572	86.241	1.00 30.11
	3630	CG	GLN	R	76	30.216	14.112	86.390	1.00 39.13
ATOM			GLN		76	31.124	13.681	85.248	1.00 33.54
ATOM	3631	CD					12.546	84.761	1.00 29.21
ATOM	3632	OE1			76	31.052			1.00 40.93
ATOM	3633	NE2			76	31.995	14 583	84.827	
ATOM	3634	С	GLN	В	76	28.624	11 892	88.079	1.00 37.88
ATOM	3635	0	GLN		76	28.901	12 908	88.858	1.00 32.74
	3636	N	SER		77	28.209	10.697	88.488	1.00 34.72
ATOM					77	28.047	10.382	89.901	1.00 37.07
ATOM	3637	CA	SER				10.738	90.371	1.00 39.61
ATOM	3638	CB	SER	В	77	26.635			
MOTA	3639	CG	SER	В	77	25.678	9.941	89.688	1.00 39.03
ATOM	3640	C	SER	В	77	28.265	8.897	90.112	1.00 35.95
	3641	Ö	SER		77	28.177	8.108	89.173	1.00 36.60
ATOM						28.528	8.518	91.355	1.00 33.03
MOTA	3642	N	VAL		78			91.685	1.00 33.41
ATOM	3643	CA	VAL	В	78	28.753	7.124		
ATOM	3644	CB	VAL	В	78	29.742	6.979	92.848	1.00 36.91
ATOM	3645	031			78	29.955	5.499	93.163	1.00 34.37
	3646	CG2			78	31.055	7.658	92.496	1.00 34.19
ATOM					78	27.461	6.431	92.082	1.00 34.93
ATOM	3647	C	VAL					93.143	1.00 28.25
ATOM	3648	Э	VAL		78	26.897	6.703	23.143	
ATOM	3649	21	PRO	В	79	26.971	5.521	91.228	1.00 36.73
ATOM	3650	CD	PRO		79	27.532	5.114	89.930	1.00 37.44
		CA	PRO		79	25.738	4.779	91.493	1.00 38.33
ATOM	3651		PRO		79	25.668	3.826	90.301	1.00 38.68
MOTA	3652	CB					4.664	89.201	1.00 37.41
ATCM	3653	CG	PRO	В	79	26.293	4.004	201	

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	2654	C	PRO B	79		25.788	4.046		1.00 36.92
MOTA	3654	C	PRO B	79		26.854	3.648		1.00 33.03
MOTA	3655	0		80		24.623	3.881	93.448	1.00 38.43
MOTA	3656	N	LYS B			24.482	3.206	94.736	1.00 39.73
	3657	CA	LYS B	80		23.003	2.871	94.967	1.00 43.33
ATOM	3658	CB	LYS B	80		22.679	2:129	96.262	1.00 44.60
MOTA	3659	CG	LYS B	80		22.679	1.742	96.287	1.00 48.09
ATOM	3660	CD	LYS B	80		21.198		-	1.00 50.12
MOTA	3661	CE	LYS B	80		20.805	1.014	97.559	1.00 53.16
ATOM	3662	NZ	LYS B	80		20.932	1.890	98.760	1.00 40.35
MOTA	3663	С	LYS B	80		25.315	1.928	94.854	
ATOM	3664	0	LYS B	80	-	25.181	1.011	94.047	1.00 36.67
MOTA	3665	N	GLY B	81		26.173	1.880	95.869	1.00 38.26
	3666	CA	GLY B	81		26.996	0.709	96.104	1.00 34.69
MOTA	3667	C	GLY B	81		28.066	0.407	95.071	1.00 34.63
MOTA		0	GLY B	81		28.861	-0.513	95.255	1.00 33.92
MOTA	3668		ALA B	82		28.100	1.178	93.992-	1.00 31.26
MOTA	3669	N		82		29.082	0.963	92.936	1.00 34.88
MOTA	3670	CA	ALA B	82		28.755	1.848	91.751	1.00 23.13
MOTA	3671	CB	ALA B			30.517	1.223	93.405	1.00 36.85
MOTA	3672	С	ALA B	82		31.461	0.580	92.945	1.00 32.17
MOTA	3673	0	ALA B	82			2.168	94.323	1.00 36.52
ATOM	3674	N	ARG B	83		30.677	2.522	94.830	1.00 38.75
MOTA	3675	CA	ARG B	83	•	31.994			1.00 40.24
MOTA	3676	CB	ARG B	83		31.865	3.616	95.885	1.00 49.12
ATOM	3677	CG	ARG B	83		33.187	4.180	96.330	1.00 53.26
ATOM	3678	CD	ARG B	83		33.015	5.239	97.404	1.00 53.20
MOTA	3679	NE	ARG B	83		34.240	6.010	97.624	1.00 59.30
ATOM	3680	CZ	ARG B	83		35.437	5.486	97.883	1.00 61.56
	3681		ARG B	83		35.598	4.170	97.958	1.00 63.53
ATOM	3682	MH	ARG B	83		36.479	6.285	98.073	1.00 62.02
ATOM			ARG B	83		32.719	1.326	95.426	1.00 37.75
MOTA	3683	C	ARG B	83		33.893	1.094	95.146	1.00 37.18
MOTA	3684	0		84		32.011	0.564	96.249	1.00 35.29
MOTA	3685	N	GLU B			32.581	-0.609	96.898	1.00 35.29
MOTA	3686	CA	GLU B			31.876	-0.855	98.236	1.00 40.14
MOTA	3687	CB	GLU B			30.443	-0.383	98.240	1.00 46.30
ATOM	3688	CG	GLU B				1.132	98.293	1.00 48.30
ATOM	3689	CD	GLU B			30.356	1.690	97.834	1.00 43.07
MOTA	3690	OE:				29.339	1.762	98.814	1.00 50.07
ATOM	3691	OE				31.306		96.055	1.00 32.90
ATOM	3692	С	GLU E			32.527	-1.880	96.193	1.00 28.68
ATOM	3693	0	GLU E			33.371	-2.765	95.193	1.00 27.12
ATOM	3694	N	LYS E	85		31.533	-1.984		1.00 30.46
ATOM	3695	CA	LYS E	85		31.412	-3.177	94.361	1.00 30.43
ATOM	3696		LYS E	85		29.950	-3.401	93.967	1.00 28.40
ATOM	3697			85		29.717	-4.643	93.117	1.00 28.40
	3698					28.234	-4.807	92.775	1.00 32.87
MOTA	3699			85		28.000	-6.048	91.928	1.00 34.15
A OM	3700					26.582	-6.186		1.00 35.34
A.OM			-			32.267	÷3.096	93.101	1.00 28.98
MOLA	3701		LYS I	-		32.817	-4.098	92.652	1.00 24.69
ATOM	3702			_		32.391	-1.896	92.550	1.00 27.81
ATOM	3703		TYR I			33.141	-1.692	91.319	. 1.00 27.56
ATOM	3704					32.206	-1.050		1.00 28.88
ATOM	3705			_		31.008	-1.927		
MOTA	3706					31.178	-3.137		
MOTA	3707						-3.955		
MOTA	3708	CE				30.095			
ATOM) CI	2 TYR			29.713	-1.553		
MOTA			2 TYR			28.611	-2.370		
ATOM						28.815	-3.569		
ATOM						27.747	-4.379	89.008	
			TYR	_		34.422	-0.870		
MOTA			TYR	_		35.160	-0.645		
ATOM			ASN	_		34.674	-0.41		
MOTA			_			35.881	0.343		
MOTA						37.105	-0.56	92.86	
MOTA						38.343	0.01		1.00 34.72
ATOM						38.309			
ATOM	371	9 0	D1 ASN	יט ע		33.030	30-0		

MOTA	3720	ND2	ASN B	87	39.449	0.012	92.775	1.00 35.86
ATOM	3721	C	ASN B	87	36.070	1.622	92.223	1.00 29.72
MOTA	3722	Ó	ASN B	87	37.194	1.998	91.876	1.00 24.01
ATOM	3723	N	ILE B	88	34.956	2.282	91.932	1.00 29.43
ATOM	3724	CA	ILE B	88	34.945	3.536	91.196	1.00 30.64
ATCM-	3725	СВ	ILE B	88	33.959	3.464	90.027	1.00 37.12
ATOM	3726	CG2	ILE B	88	33.821	4.829	89.379	1.00 40.62
MOTA	3727	CG1		88	34.421	2.433	89.008	1.00 35.43
ATOM	3728	CD1		88	35.684	2.821	88.324	1.00 41.80
ATOM	3729	C	ILE B	88	34.483	4.669	92.118	1.00 31.90
ATOM	3730	ō	ILE B	88	33.681	4.445	93.024	1.00 28.86
ATOM	3731	N	GLY B.	89	34.977	5.881	91.875	1.00 30.36
ATOM	3732	CA	GLY B	89 .	34.574	7.022	92.686	1.00 29.54
ATOM	3733	C	GLY B	89	35.601	7.524	93.685	1.00 31.49
ATOM	3734	ō	GLY B	89	35.497	8.652	94.177	1.00 37.26
ATOM	3735	N	GLY B	90	36.583	6.687	94.005	1.00 30.97
ATOM	3736	CA	GLY B	90	37.612	7.086	94.949	1.00 31.03
ATOM	3737	c c	GLY B	90	38.655	7.936	94.247	1.00 34.78
ATOM	3738	ō	GLY B	90	38.455	8.344	93.103	1.00 32.73
ATOM	3739	N	TYR B	91	39.772	8.201	94.915	1.00 29.39
ATOM	3740	CA	TYR B	91	40.820	9.023	94.322	1.00 28.15
ATOM	3741	CB	TYR B	91	41.810	9.463	95.405	1.00 27.29
ATOM	3742	CG	TYR B	91	42.609	8.330	96.007	1.00 26.60
ATOM	3743		TYR B	91	43.738	7.823	95.359	1.00 28.55
ATOM	3744		TYR B	91	44.456	6.762	95.896	1.00 28.75
ATOM	3745		TYR B	91	42.219	7.741	97.208	1.00 28.35
MOTA	3746	CE2	TYR B	91	42.927	6.680	97.751	1.00 27.58
MOTA	3747	CZ	TYR B	91	44.043	6.196	97.094	1.00 30.12
ATOM	3748	OH	TYR B	91	44.753	5.154	97.637	1.00 36.59
MOTA	3749	С	TYR B	91	41.563	8.271	93.226	1.00 29.27
ATOM	3 7 50	0	TYR B	91	42.109	8.874	92.308	1.00 25.22
ATCM	3751	N	GLU B	92	41.568	6.948	93.318	1.00 28.32
ATOM	3752	CA	GLU B	92	42.286	6.124	92.350	1.00 27.06
MOTA	3 7 53	CB	GLU B	92	42.474	4.726	92.924	1.00 23.35
ATOM	3754	CG	GLU B	92	43.502	3.884	92.221	1.00 29.80
MOTA	3755	CD	GLU B	92	43.585	2.500	92.826	1.00 35.34
ATOM	.3756		GLU B	92	42.742	1.645	92.477	1.00 32.15
MOTA	3757	OE2	GLU B	92	44.475	2.278	93.678	1.00 31.61
ATOM	3758	С	GLU B	92	41.594	6.024	90.997	1.00 23.42
MOTA	3759	0	GLU B	92	42.204	6.260	89.962	1.00 20.47
ATOM	3760	N	ASN B	93	40.314	5.677	91.017	1.00 18.85
ATOM	3761	CA	ASN B	93	39.534	5.509	89.795	1.00 21.96
ATOM	3762	CB	ASN B	93	39.165	4.033	89.664	1.00 23.90
ATCM	3763	CG	ASN B	93	40.351	3.120	89.943	1.00 24.78
ATOM	3764		ASN B	93	41.362	3.160	89.239	1.00 22.35
MOTA	3765		ASN B	93	40.240	2.311		1.00 13.35 1.00 25.16
ATOM	3766	C	ASN B	93	38.285	6.362	89.94¢ 90.121	1.00 25.16
ATCM	3767	0	ASN B	93	37.183	5.843	89.887	1.00 26.37
ATCM	3768	N	PRO B	94	38.449	7.693 8.389	89.716	1.00 28.37
ATOM	3769	CD	PRO B	94	39.738	8.676	90.024	1.00 19.33
ATOM	3770	CA	PRO B	94	37.373		90.200	1.00 25.95
ATOM	3771	CB	PRO B	94	38.147 39.297	9.972 9.740	89.223	1.00 22.60
MOTA	3772	CG	PRO B	94			88.873	1.00 28.74
ATOM	3773	C	PRO B	94	36.384 36.562	8.777 8.176	87.808	1.00 25.77
ATOM	3774 3775	O N	PRO B VAL B	94 95	35.332	9.553	89.112	1.00 23.77
ATOM		N	VAL B	95 95	34.317	9.812	88.103	1.00 27.14
ATOM	3776	CA	VAL B	95 95	33.035	10.393	88.742	1.00 23.75
MOTA	3 <i>777</i> 3778	CB CG1	VAL B	95 95	32.067	10.353	87.662	1.00 26.34
ATOM			VAL B	95 95	32.378	9.346	89.622	1.00 27.59
ATOM	3779 3780	CGZ	VAL B	95 95	34.912	10.861	87.175	1.00 27.33
ATOM	3780 3781	0	VAL B	95	35.564	11.793	87.641	1.00 25.25
ATOM	3782	N	SER B	96	34.708	10.699	85.871	1.00 28.02
atom atom	3783	CA	SER B	96	35.199	11.647	84.868	1.00 24.82
ATOM	3784	CB	SER B	96	36.729	11.705	84.850	1.00 25.90
ATOM	3785	OG	SER B	96	37.274	10.548	84.229	1.00 23.99
					-			

	2206	_	SER B	96	34.726	11.127	83.519	1.00 26.22
ATOM	3786		SER B	96	33.943	10.174	83.462	1.00 23.57
ATOM	3787	-	TYR B	97	35.195	11.744	82.438	1.00 22.83
ATOM	3788		TYR B	97	34.818	11.279	81.110	1.00 28.59
MOTA	3789		TYR B	97	34.536	12.452		1.00 31.45
MOTA	3790		TYR B	97	33.279	13.203	80.548	1.00 35.09
MOTA	3791		TYR B	97	33.316	14.239	81.480	1.00 32.87
ATOM	3792		TYR B	97	32.148	14.863	81.911	1.00 37.73
ATOM	3793	CD2	TYR B	97	32.036	12.812	80.049	1.00 34.85
MOTA	3794 3795	CE2	TYR B	97	30.858	13.430	80.475	1.00 38.61
MOTA	3796	CZ	TYR B	97	30.924	14.453	81.408	1.00 39.45
MOTA	3797	OH	TYR B	97	29.768	15.047	81.852	1.00 35.36
ATOM ATOM	3798	C	TYR B	97	35.883	10.354	80.534	1.00 28.93
ATOM	3799	ō	TYR B	97	35.859	9.992	79.358	1.00 28.26
ATOM	3800	N	ALA B	98	36.822	9.968	81.385	1.00 29.09
ATOM	3801	CA	ALA B	98	37.866	9.044	80.980	1.00 26.88 1.00 27.99
ATOM	3802	CB	ALA B	98	39.167	9.369	81.692	1.00 27.33
ATOM	3803	С	ALA B	98	37.395	7.657	81.382	1.00 22.33
ATOM	3804	0	ALA B	98	37.721	6.675	80.722 82.453	1.00 23.51
MOTA	3805	N	MET B	99	36.603	7.595	82.986	1.00 26.36
MOTA	3806	CA	MET B	99	36.106	6.326 6.568	84.185	1.00 24.05
ATOM	3807	CB	MET B	99	35.179 33.822	7.188	83.875	1.00 28.37
MOTA	3808	CG	MET B	99	32.966	7.704	85.406	1.00 27.91
MOTA	3809	SD	MET B	99 99	33.106	6.227	86.409	1.00 22.12
MOTA	3810	CE	MET B	99	35.430	5.435	81.953	1.00 25.76
MOTA	3811	C	MET B	99	35.544	4.212	82.031	1.00 26.11
MOTA	3812 3813	O N	PHE B	100	34.724	6.027	80.992	1.00 22.17
MOTA	3814	CA	PHE B		34.107	5.222	79.940	1.00 22.35
MOTA MOTA	3815	CB	PHE B	100	32.582	5.133	80.088	1.00 22.01
MOTA	3816	CG	PHE B		31.947	4.254	79.038	1.00 24.22
ATOM	3817	CD1			32.143	2.872	79.061	1.00 26.61
ATOM	3818	CD2			31.280	4.813	77.953	1.00 21.22 1.00 26.91
ATOM	3819	CE1	PHE B		31.691	2.059	78.012 76.894	1.00 24.80
MOTA	3820	CE2			30.825	4.010 2.632	76.834	1.00 24.85
ATOM	3821	CZ	PHE B		 31.033 34.425	5.695	78.514	1.00 24.86
MOTA	3822	С	PHE B		34.425	4.920	77.694	1.00 21.40
MOTA	3823	0	PHE B		34.131	6.957	78.204	1.00 24.24
MOTA	3824	N	THR B		34.390	7.469	76.854	1.00 24.54
MOTA	3825	CA CB	THR B		33.914	8.926	76.708	1.00 24.46
ATOM	3826 3827	OG1		101	32.504	8.985	76.953	1.00 27.64
MOTA MOTA	3828	CG2		101	34.191	9.445	75.297	1.00 22.19
ATOM	3829	C	THR E	101	35.872	7.387	76.483	1.00 25.26
ATOM	3830	ō	THR E	101	36.231	6.856	75.430	1.00 25.47 1.00 23.74
ATOM	3831	N	GLY E	102	36.725		77.350	1.00 23.74
ATOM	3832	CA	GLY E	102	38.153	7.867	77.096 77.046	1.00 24.06
ATOM	3833	С	GLY E	102	38.657	6.434 6.045	76.100	1.00 22.53
ATOM	3834	0	GLY E	102	39.346		78.067	1.00 22.02
ATOM	3835	N	SER E	103	38.316 38.730			1.00 20.45
MOTA	3836	CA	SER E	103	38.193		79.427	1.00 25.21
MOTA	3637	CB	SER E	103	38.820			1.00 26.48
MOTA	3838	oG	SER I	103	38.268			1.00 20.53
MOTA	3839	С	SER	103	39.034			1.00 16.82
MOTA	3840 3841	0 N	SER I	3 104	37.014		76.542	1.00 17.11
ATOM	3842	CA	SER I	3 104	36.462	2.937		1.00 23.32
MOTA	3542		SER I	3 104	34.980	3.289	_	1.00 22.93
ATOM	3844		SER	3 104	34.424			
MOTA MOTA	3845		SER	B 104	37.221			
ATOM	3546		SER	B 104	37.451			
ATOM	3847		LEU	B 105	37.619	4.549		
ATOM	3848		LEU	B 105	38.354			
ATOM	3349	CB		B 105	38.443			
MOTA,	3850		LEU	B 105	38.702 37.662			
ATOM	3851	CD	1 LEU	R T02	٠٠٠٥٠ ر	. 0.000		. = : : : : : : : : : : : : : : : : : :

	2052	CD2	LEU B	105		38.529	8.802	71.819	1.00 34.30
ATOM	3852		LEU B			39.755	4.374	72.813	1.00 27.39
ATOM	3853	C				40.262	3.955	71.765	1.00 20.15
ATOM	3854	0	LEU B				4.293	73.988	1.00 23.62
ATOM	3855	N	ALA B			40.371		74.115	1.00 23.02
MOTA	3856	CA	ALA B			41.704	3.692		1.00 22.75
MOTA	3857	CB	ALA B			42.263	3.939	75.529	
ATOM	3858	С	ALA B			41.639	2.189	73.846	1.00 22.77
MOTA	3859	0	ALA B	106		42.583	1.597	73.316	1.00 24.98
ATOM	3860	N	THR B	107		40.523	1.567	74.224	1.00 23.54
MOTA	3861	CA	THR B	107		40.355	0.132	74.033	1.00 19.76
ATOM	3862	CB	THR B	107		39.236	-0.410	74.947	1.00 22.85
ATOM	3863	OG1	_			39.572	-0.128	76.306	1.00 16.29
MOTA	3864	CG2	THR B			39.085	-1.917	74.787	1.00 17.21
ATOM	3865	C	THR B			40.036	-0.169	72.571	1.00 23.47
ATOM	3866	Ö	THR B			40.540	-1.138	72.001	1.00 19.25
ATOM	3867	N	GLY E			39.191	0.656	71.959	1.00 24.87
ATOM	3868	CA	GLY E			38.879	0.434	70.560	1.00 21.32
	3869	C	GLY E			40.161	0.594	69.757	1.00 22.01
ATOM	3870	0	GLY E			40.388	-0.099	68.761	1.00 20.46
ATOM		Ŋ	SER E			41.018	1.508	70.197	1.00 19.89
ATOM	3871		SER E			42.274	1.749	69.499	1.00 19.37
MOTA	3872	CA	SER E			42.993	2.956	70.107	1.00 18.28
MOTA	3873	CB				42.250	4.145	69.882	1.00 21.29
MOTA	3874	OG	SER E			43.168	0.513	69.542	1.00 20.70
ATOM	3875	C	SER E			43.100	0.261	68.617	1.00 20.69
MOTA	3876	0	SER E				-0.259	70.616	1.00 20.54
MOTA	3877	N	THR E			43.065	-1.475	70.729	1.00 19.98
ATOM	3878	CA	THR E			43.858		70.723	1.00 20.63
MOTA	3879	CB	THR E	_	-	43.826	-2.043		1.00 20.72
MOTA	3880	CG1				44.632	-1.215	73.007	1.00 20.72
ATOM	3881	ÇG2				44.371	-3.470	72.188 69.738	1.00 20.55
ATOM	3882	С	THR F			43.333	-2.507		1.00 21.01
MOTA	3883	0	THR E			44.115	-3.239	69.127	1.00 18.29
MOTA	3884	N	VAL E			42.012	-2.557	69.567	
ATOM	3885	CA	VAL I			41.432	-3:486	68.608	1.00 20.36 1.00 23.94
ATOM	3886	CB	VAL I			39.886	-3.494	68.677	
ATOM	3887	CG1				39.324	-4.442	67.619	1.00 24.37
ATOM	3888	CG2				39.426	-3.937	70.063	1.00 21.60
MOTA	3889	С	VAL :			41.872	-3.080	67.197	1.00 20.35
ATOM	3890	0		B 111		42.146	-3.936	66.362	1.00 23.29
ATOM .	3891	N		B 112		41.953	-1.775	66.937	1.00 22.07
MOTA	3892	CA		B 112		42.367	-1.290	65.617	1.00 22.34
ATOM	3893	CB	GLN I	B 112		42.199	0.230	65.513	1.00 24.54
MOTA	3894	CG		B 112		40.810	0.729	65.843	1.00 20.63
ATOM	3895	CD		B 112		40.700	2.236	65.742	1.00 21.19
ATOM	3896	OEl		в 112		40.664	2.794	64.645	1.00 26.73
ATOM	3897	NE2		B 112		40.667	2.905	66.886	1.00 18.33
ATOM	3898	C	GLN I	B 112		43.826	-1.635	65.363	1.00 23. 1
ATOM	3899	0	GLN :	B 112		44.195	-2.020	64.257	1.00 15.79
ATOM	3900	N	ALA	B 113		44.660	-1.476	66.389	1.00 20.60
ATOM	3901	CA		B 113		46.070	-1.790	66.249	1.00 18.02
MOTA	3902	CB		B 113		46.794	~1.536	67.548	1.00 20.84
MOTA	3903	C		B 113		46.170	-3.262	65.863	1.00 23.78
ATOM	3904	ō		B 113		46.982	-3.642	65.023	1.00 19.33
ATOM	. 3905	N		B 114		45.331	-4.091	66.477	1.00 21.45
ATOM	3906	CA	ILE	B 114		45.344	-5.511	66.168	1.00 24.26
ATOM	3907	CB		B 114		44.507	-6.306	67.191	1.00 20.72
ATOM	3908	CG2		B 114		44.476	-7.779	66.800	1.00 21.92
	3909	CG1		B 114		45.116	-6.144	68.593	1.00 24.32
ATOM	3910	CD1		B 114		44.364	-6.872	69.694	1.00 19.01
ATOM		c		B 114		44.808	-5.765	54.753	1.00 26.75
ATOM	3911	0		B 114		45.305	-6.64C	64.032	1.00 20.18
ATOM	3912			B 115		43.792	-5.009	64.347	1.00 24.59
ATOM	3913	N Cr		B 115		43.243	-5.198	63.005	1.00 29.26
ATOM	3914	CA	טבט	B 115		42.043	-4.278	62.770	1.00 29.07
ATOM	3915	CB	CT 11	B 115		40.940	-4.421		1.00 32.31
ATCM	3916	CG	CT 11	B 115		39.757	-3.519		1.00 38.14
ATOM	3917	CD	نابري			5551	5.520		



		on: CT!! C 11	39.5	80 -2	2.374	63.072	1.00 40.63
ATOM	3918	OE1 GLU E 11				63.758	1.00 39.86
MOTA	3919	OE2 GLU B 115		_			
ATOM	3920	C GLU B 11	5 44.3			61.974	1.00 31.52
ATOM	3921	O GLU B 11	5 44.4	144 -	5.603	60.964	1.00 26.43
		N GLU B 11		141 -	3.879	62.234	1.00 26.04
MOTA	3922		_			61.324	1.00 26.21
ATOM	3923	CA GLU B 11	-			61.775	1.00 23.21
MOTA	3924	CB GLU B 11					1.00 23.82
MOTA	3925	CG GLU B 11	5 46.			61.601	
ATOM	3926	CD GLU B.11		576 -		60.163	1.00 31.43
		OE1 GLU B 11		425 -	0.734	59.253	1.00 26.45
ATOM	3927	OEI GEO D 11				59.945	1.00 24.59
MOTA	3928	OE2 GLU B 11	-			61.243	1.00 28.60
MOTA	3929	C GLU B 11	•			60.189	1.00 25.01
ATOM	3930	O GLU B 11	6 47.				1.00 25.01
MOTA	3931	N PHE B 11	7 47.		5.324	62.363	
ATOM	3932	CA PHE B 11	7 48.	421 -	6.425	62.400	1.00 28.05
	3933	CB PHE B 11		516 -	7.007	63.805	1.00 32.15
ATOM		CG PHE B 11		278 -	8.299	63.869	1.00 33.88
MOTA	3934		•		8.321	63.713	1.00 33.52
MOTA	3935	CD1 PHE B 11			9.502	64.054	1.00 32.83
ATOM	3936	CD2 PHE B 11				63.740	1.00 31.67
MOTA	3937	CE1 PHE B 11		_	9.521		
ATOM	3938	CE2 PHE B 11			.0.710	64.082	1.00 35.69
ATOM	3939	CZ PHE B 11		674 - 1	.0.717	63.926	1.00 36.72
	3940	C PHE B 11		929 -	-7.508	61.456	1.00 26.43
MOTA				689 -	-8.061	60.669	1.00 27.61
MOTA	3941		• •		-7.809	61.551	1.00 23.59
MOTA	3942	N LEU B 11			-8.820	60.705	1.00 29.15
ATOM	3943	CA LEU B 11	. •				1.00 28.78
MOTA	3944	CB LEU B 13			-9.039	61.099	
ATOM	3945	CG LEU B 13	. •	_	-9.478	62.557	1.00 35.24
ATOM	3946	CD1 LEU B 13	8 42.		-9.763	62.788	1.00 31.92
	3947	CD2 LEU B 13	8 45.	205 - 1	10.723	62.856	1.00 33.40
MOTA					-8.422	59.236	1.00 30.15
MOTA	3948				-9.276	58.379	1.00 27.04
MOTA	3949	O LEU B 1			-7.128	58.947	1.00 27.96
ATOM	3950	N LYS B 1				57.569	1.00 26.69
ATOM	3951	CA LYS B 1			-6.663		1.00 23.94
MOTA	3952	CB LYS B 1			-5.291	57.412	
ATOM	3953	CG LYS B 1	19 43		-5.260	57.795	1.00 24.41
ATOM	3954	CD LYS B 1		.327 •	-3.970	57.350	1.00 27.53
		CE LYS B 1	9 44	.024 -	-2.739	57.886	1.00 33.13
ATOM	3955				-1.479	57.428	1.00 27.75
MOTA	3956				-6.598	57.101	1.00 29.12
MOTA	3957	C LYS B 1			-6.160	55.984	1.00 35.25
ATOM	3958	O LYS B 1				57.958	1.00 30.25
MOTA	3959				-7.034		1.00 28.38
ATOM	3960	CA GLY B 1			-7.037	57.585	1.00 28.30
ATOM	3961	C GLY B 1	20 50		-5.751	57.861	1.00 27.91
	3962	O GLY B 1		.775	-5.582	57.403	1.00 22.25
MOTA			21 50	.024	-4.836	58.600	1.00 25.42
ATOM	3963				-3.587	58.919	1.00 29.49
ATOM	3964	CA ASN B			-2.389	58.727	1.00 30.07
ATOM	3965	CB ASN B 1			-2.307	57.325	1.00 32.25
ATOM	3966	CG ASN B 1					1.00 35.44
MOTA	3967	OD1 ASN B 1			-2.491	56.350	
ATOM	3968	ND2 ASN B 1	21 47		-2.006	57.217	. 1.00 32.20
ATOM	3969	C ASN B 1	21 51	.172	~3.637	60.361	1.00 30.92
					-4.631	61.059	1.00 27.08
MOTA	3970				-2.560	60.796	1.00 28.46
MOTA	3971	N VAL B 1		.309	-2.457	62.155	1.00 29.48
ATOM	3972	CA VAL B 1			-2.352	62.177	1.00 33.40
ATOM	3973	CB VAL B 1		.840			1.00 32.22
ATOM	3974	CG1 VAL B 1		.334	-2.294	63.611	1.00 32.22
ATOM	3975	CG2 VAL-B 1	.22 54	.446	-3.544	61.458	1.00 33.37
	3976		.22 51	.713	-1.196	62.748	1.00 29.04
ATCM				.800	-0.118	62.153	1.00 27.47
ATOM	3977			.100	-1.326	63.918	1.00 26.71
atom	3978			.477	-0.177	64.559	
ATOM	3979				-0.281	64.447	
ATOM	3980	CB YTY B]		1.963			
ATCM	3981	C ALA B		.872	-0.005	66.017	
ATOM	3982			227	-0.965		
	3983			.805	1.239	66.472	1.00 22.85
MOTA	د د د د						

ATOM	3984	CA	PHE B 1	24	51.122	1.577	67.847	1.00	17.31
	3985	СВ	PHE B 1		52.419	2.404	67.876	1.00	16.88
ATOM	-				52.762	3.000	69.225		18.52
MOTA	3986	CG		24					17.52
MCTA	3987	CD1	PHE B 1	24	52.533	2.304	70.403		
ATOM	3988	CD2	PHE B 1	24	53.382	4.245	69.297	1.00	
	3989			24	52.914	2.837	71.638	1.00	25.77
ATOM-					53.769	4.790	70.517	1.00	
ATOM	3990	CE2	PHE B 1						
MOTA	3991	CZ	PHE B 1	24	53.535	4.084	71.698	1.00	
ATOM	3992	С	PHE B 1	24	49.937	2.348	68.421	1.00	
	3993		PHE B 1		49.462	3.311	67.820	1.00	16.62
MOTA						1.868	69.546	1.00	
ATOM	3994	N	ASN B 1		49.418				16.22
ATOM	3995	CA	ASN B 1	.25	48.320	2.528	70.238		
ATOM	3996	CB	ASN B 1	.25	47.129	1.603	70.435	1.00	
	3997	CG	ASN B 1		46.095	2.209	71.346	1.00	19.79
ATOM					45.930	3.430	71.372	1.00	20.83
ATOM	3998	OD1					72.087	1.00	
ATOM	3999	ND2			45.376	1.371			
ATOM	4000	С	ASN B 1	.25	48.790	3.004	71.600	1.00	
ATOM	4001	0	ASN B 1	.25	48.687	2.280	72.585	1.00	20.99
		N	PRO B 1	26	49.335	4.226	71.668	1.00	19.02
MOTA	4002		FRO D 1	20	49.595	5.156	70.555		21.39
ATOM	4003	CD	PRO B 1						21.60
ATOM	4004	CA	PRO B 1		49.833	4.805	72.917		
ATOM	4005	CB	PRO B 1	126	50.398	6.161	72.459		21.07
	4006	CG	PRO B 1	26	49.530	6.487	71.269	1.00	17.70
MOTA			PRO B 1		48.808	4.942	74.034	1.00	20.69
ATOM	4007	С					75.198		19.79
ATOM	4008	0	PRO B 1		49.178	5.053			
ATOM	4009	N	ALA B 1		47.525	4.937	73.689		16.67
ATOM	4010	CA	ALA B 1	L27	46.476	5.065	74.698	1.00	20.44
	4011	СВ		127	45.198	5.609	74.066	1.00	19.56
ATOM					46.169	3.747	75.401		20.80
ATOM	4012		ALA B	4/					19.47
ATOM	4013	0	ALA B 1	L27	45.555	3.742	76.472		
MOTA	4014	N	GLY B 1	128	46.587	2.634	74.800		20.52
ATOM	4015	CA	GLY B 1	128	46.325	1.333	75.399	1.00	
		c	GLY B		47.327	0.910	76.463	1.00	20.56
ATOM	4016				48.182	1.697	76.869		18.37
ATOM	4017	0		128 -			76.929	1.00	
ATOM	4018	N	GLY B		47.215	-0.333			
MOTA	4019	CA	GLY B		48.136	-0.820	77.943		19.93
ATOM	4020	С	GLY B	129	47.620	-0.619	79.358		25.25
	4021	ŏ	GLY B	129	48.383	-0.686	80.329	1.00	18.98
MOTA					46.317	-0.374	79.474	1.00	16.04
ATOM	4022	N	MET B				80.768		19.26
ATOM	4023	CA		130	45.677	-0.161			
ATOM	4024	CB	MET B		44.301	0.451	80.519		17.94
ATOM	4025	CG	MET B	130	44.413	1.728	79.653		22.95
	4026	SD	MET B		42.873	2.615	79.307	1.00	31.83
ATOM					41.957	1.358	78.382	1.00	20.22
ATOM	4027	CE.	MET B				81.421		22.63
ATOM	4028	С	MET B		45.598	-1.548			
ATOM	4029	0	MET B		44.546	-2.173	81.486		16.24
ATOM	4030	N	HIS B	131	46.737	-1.999	81.932		18.42
	4031	CA	HIS B	131	46.853	-3.343	82.472	1.00	17.07
ATOM			HIS B		48.323	-3.804	82.341	1.00	17.61
ATOM	4032	CB					83.106		14.01
ATOM	4033	CG	HIS B	131	49.316	-2.979			
ATOM	4034	CD2	HIS B	131	49.138	~1.904	83.915		13.47
ATOM	4035	ND1	HIS B	131	50.680	-3.190	83.051		18.00
	4036	CEI	HIS B	131	51.297	-2.281	83.789	1.00	15.27
ATOM			HIS D	121	50.384	-1.489	84.324		17.21
ATOM	4037		HIS B	12T					16.41
ATOM	4038	С	HIS B		46.329	-3.724	83.852		
ATOM	4039	0	HIS B	131	46.452	-4.883	84.236		19.37
ATOM	4040	N	HIS B	132	45.721	-2.794	84.586		18.64
	4041	CA	HIS B		45.241	-3.112	85.936		20.87
ATOM					45.513	-1.935	86.885		18.85
ATOM	4042	CB	HIS B						20.00
ATOM	4043	CG	HIS B	132	46.966	-1.686	87.152		
ATOM	4044	CD2	2 HIS B	132	47.715	-0.563	87.030	T.00	15.74
	4045	ממו	HIS B	132	47.810	-2.655	87.659	1.00	14.72
ATOM		CE	HIS B	132	49.014	-2.139	87.837	1.00	14.64
ATOM	4046	LE.	T UTO D	132	48.984	-0.872	87.462	1.00	14.88
ATOM	4047		2 HIS B	122				1 00	22.83
ATOM	4048	С	HIS B	132	43.778	-3.547		1.00	17.84
ATOM	4049	0	HIS B	132	43.478	-4.298	87.076	1.00	11.04

» mow	4050	N	ALA B	133	42.8	78	-3.088	85.271	1.00	16.54
ATOM	4051	CA	ALA B		41.4		-3.396	85.424	1.00	19.13
MOTA	4051	CB	ALA B		40.6		-2.704	84.328	1.00	23.56
MOTA		C	ALA B		41.1		-4.883	85.439		23.12
ATOM	4053		ALA B		41.7		-5.677	84.696	1.00	18.03
MOTA	4054	0		134	40.1		-5.257	86.294		19.69
MOTA	4055	N	PHE B		39.7		-6.649	86.365		19.35
MOTA	4056	CA			39.5		-7.122	87.818		21.26
ATOM	4057	CB		134	40.8		-7.122	88.646		23.41
MOTA	4058	CG		134	41.0		-6.009	89.544	1.00	
MOTA	4059			134	41.8		-8.027	88.522	1.00	
MOTA	4060	CD2		134	42.2		-5.935	90.311	1.00	
MOTA	4061	CE1		134	42.2		-7.964	89.283	1.00	
MOTA	4062	CE2		134	43.1		-6.917	90.178	1.00	
MOTA	4063	CZ	PHE B		38.4		-6.816	85.621	1.00	
MOTA	4064	C	PHE B				-5.849	85.196		13.82
MOTA	4065	0	PHE B		37.8 38.0		-8.064	85.454	1.00	
ATOM	4066	N	LYS B				-8.421	84.782		28.09
MOTA	4067	CA	LYS B	135	36.8		-9.879	85.125	1.00	
MOTA	4068	CB	LYS B		36.9			84.953		42.76
MOTA	4069	CG	LYS B				-10.310 -11.745	85.437		48.44
MOTA	4070	CD	LYS B		34.9			85.531		55.66
MOTA	4071	CE	LYS B		33.4		-12.152	86.544		51.65
MOTA	4072	NZ	LYS B		32.		-11.332			28.27
ATOM	4073	С	LYS B		35.		-7.512	85.172		24.86
MOTA	4074	0	LYS B		34.		-6.999	84.309		29.89
ATOM	4075	N	SER B		35.		-7.292	86.470		
MOTA	4076	CA	SER B		34.		-6.477	86.933		30.86
MOTA	4077	CB	SER B		33.		-7.388	87.582		
ATOM	4078	OG		136	32.		-8.434	86.698		45.10
ATOM	4079	С	SER B	136	34.		-5.380	87.923	1.00	31.50
MOTA	4080	0	SER B		33.		-4.997	88.765		24.54
ATOM	4081	N	ARG B		35.		-4.854	87.835		22.63
ATOM	4082	CA	ARG B		36.		-3.826	88.794		25.51
ATOM	4083	CB	ARG B		36.		-4:486	90.136		29.62
ATOM	4084	CG	ARG B	137	36.		-3.578	91.318	1.00	36.21
MOTA	4085	CD	ARG B		36.		-4.160	92.631		40.79
ATOM	4086	NE	ARG B		36.		-3.357	93.744		45.95
ATOM	4087	CZ	ARG B			863	-3.369	94.973		41.97
ATOM	4088	NH1				897	-4.144	95.263		43.42
ATOM	4089	NH2				322	-2.604	95.913	1.00	46.65
ATOM	4090	С	ARG B			461	-2.956	88.339		24.73
MOTA	4091	0				420	-3.441	87.734		19.32
ATOM	4092	N	ALA B			372	-1.663	88.631	1.00	
ATOM	4093	CA	ALA B			428	-0.733	88.270	1.00	17.24
MOTA	4094	CB	ALA B	138		939	0.694	88.401		
ATOM	4095	С	ALA B			597	-0.964	89.216	1.00	22.62 18.98
MOTA	4096	0	ALA B	138		411	-1.419	90.346		
ATOM	4097	N	ASN B			301	-0.641	88.759	1.00	20.82 25.17
ATOM	4098	CA	ASN B	139		989	-0.828	89.585		
ATOM	4099	CB	ASN B	139		311		89.689	1.00	20.59
ATOM	4100	CG	ASN B	139		556		90.511		27.70
ATOM	4101	OD:	1 ASN B	139		726		91.592		22.43
ATOM	4102	ND:	2 ASN B	139		420		90.010	1.00	24.43
ATOM	4103	С	ASN B			176		89.020	1.00	22.37
MOTA	4104	0	ASN B	139	43.	. 338		87.799	1.00	17.50
ATOM	4105	N	GLY B			984		89.920	1.00	21.67
ATOM	4106				45.	.166		89.524	1.00	23.06
ATOM	4107		GLY B		45.	. 005		88.402	1.00	26.29
ATOM	4108		GLY B			. 827		87.479	1.00	22.47
	4109		PHE B		43	.958	3.093	88.473	1.00	22.33
MOTA	4110					. 694		87.461		19.01
MOTA	4111				44	.996	4.806	86.997	1.00	22.90
MOTA	4112			141	45	.810	5.433	88.097	1.00	23.17
MOTA	4113		1 PHE E	141		.114			1.00	22.17
MOTA	4113			141		.281			1.00	23.40
ATOM	4115		1 PHE E	141		.876			1.00	24.02
MOTA	4113	, –		. – –						

								00 261	1.00 23.03
ATOM	4116	CE2	PHE B			46.033	6.244	90.361	
ATOM	4117	CZ	PHE B	141		47.335	6.658	90.092	1.00 25.15
ATOM	4118	С	PHE B			43.029	3.538	86.214	1.00 23.69
			PHE B			42.596	4.283	85.335	1.00 18.88
ATOM	4119	0						86.122	1.00 15.03
MOTA	4120	N	CYS B			42.962	2.211		
MOTA	4121	CA	CYS B	142	•	42.380	1.578	84.938	1.00 19.55
MOTA	4122	CB	CYS B	142		43.193	0.336	84.552	1.00 20.38
ATOM	4123	SG	CYS B	142		44.933	0.662	84.190	1.00 37.40
		C	CYS B			40.923	1.171	85.098	1.00 22.77
MOTA	4124					40.561	0.514	86.082	1.00 23.04
MOTA	4125	0	CYS B						1.00 15.24
MOTA	4126	N	TYR B			40.094	1.557	84.130	
ATOM	4127	CA	TYR B			38.675	1.194	84.155	1.00 21.97
MOTA	4128	CB	TYR B	143		37.795	2.372	83.723	1.00 18.06
ATOM	4129	CG	TYR B			38.016	3.622	84.535	1.00 24.34
	4130	CD1				39.038	4.516	84.214	1.00 23.20
ATOM						39.265	5.658	84.991	1.00 27.42
MOTA	4131	CE1				37.226	3.892	85.652	1.00 19.15
MOTA	4132	CD2	TYR B					86.432	1.00 21.92
ATOM	4133	CE2				37.441	5.023		1.00 23.94
MOTA	4134	CŻ	TYR B			38.458	5.900	86.099	
MOTA	4135	oh	TYR B	143		38.655	7.015	86.877	1.00 22.37
ATOM	4136	С	TYR B	143		38.431	0.008	83.218	1.00 19.91
ATOM	4137	0	TYR B	143		37.665	-0.902	83.535	1.00 22.50
	4138	N	ILE B			39.083	0.026	82.061	1.00 19.20
ATOM			ILE B			38.938	-1.055	81.082	1.00 19.68
ATOM	4139	CA				38.282	-0.528	79.787	1.00 20.26
MOTA	4140	CB	ILE B					78.760	1.00 15.37
MOTA	4141	CG2	ILE B			38.151	-1.649		1.00 20.93
ATOM	4142	CG1	ILE B			36.901	0.053	80.113	
ATOM	4143	CD1	ILE B			36.198	0.697	78.917	1.00 23.75
ATOM	4144	С	ILE B	144		40.320	-1.627	80.774	1.00 22.78
ATOM	4145	0	ILE B	144		41.281	-0.873	80.600	1.00 22.01
ATOM	4146	N	ASN B			40.422	-2.956	80.723	1.00 23.18
	4147	CA	ASN B			41.698	-3.623	80.451	1.00 20.63
ATOM			ASN B			41.778	-4.935	81.243	1.00 17.81
ATOM	4148	CB				43.188	-5.531	81.268	1.00 25.17
MOTA	4149	CG	ASN B					80.227	1.00 23.63
ATOM	4150	OD1		145		43.804	-5.742		1.00 23.65
ATOM	4151	ND2		145		43.693	-5.819	82.472	
MOTA	4152	С	ASN B	145		41.780	-3.918	78.955	1.00 21.18
ATOM	4153	0	ASN B	145		41.389	-5.002	78.508.	1.00 17.80
ATOM	4154	N	ASN B			42.293	-2.968	78.177	1.00 15.23
ATOM	4155	CA	ASN B			42.367	-3.175	76.733	1.00 19.71
	4156	CB	ASN B	146		42.773	-1.880	76.015	1.00 17.65
MOTA			ASN B	146		44.196	-1.458	76.306	1.00 19.86
ATOM	4157	CG				45.109	-1.735	75.532	1.00 20.27
MOTA	4158	OD1		146			-0.798	77.435	1.00 11.85
MOTA	4159	ND2		146		44.395		76.331	1.00 19.07
ATOM	4160	С	ASN B	146		43.277	-4.342		
MOTA	4161	0	ASN B			43.030	-4.996	75.328	1.00 18.61
MOTA	4162	N	PRO B	147		44.358	-4.598	77.082	1.00 17.78
ATOM	4163	CD	PRO B			44.953	-3.919	78.240	1.00 18.13
ATOM	4164	CA	PRO B			45.197	-5.735	76.678	1.00 19.98
	4165	CB	PRO B			46.338	-5.694	77.698	1.00 24.29
MOTA			PRO B			46.425	-4.201	78.020.	1.00 26.27
ATOM	4166	CG					-7.041	76.757	1.00 20.91
MOTA	4167	С	PRO B	14/		44.377		75.871	1.00 17.58
ATOM	4168	0	PRO B	14/		44.461	-7.892		1.00 15.81
MOTA	4169	N	ALA B			43.568	-7.172	77.809	
MOTA	4170	CA	ALA B	148		42.732	-8.362	78.008	1.00 19.82
ATOM	4171	CB	ALA B			42.049	-8.312	79.372	1.00 17.50
ATOM	4172	c	ALA B	148		41.683	-8.473	76.903	1.00 22.58
	4173	õ	ALA B			41.419	-9.567	76.404	1.00 18.38
ATCM			VAL B	149		41.080	-7.341	76.540	1.00 22.48
ATOM	4174	N	VAL B			40.086	-7.300	75.466	1.00 19.04
ATOM	4175	CA				39.503	-5.877	75.281	1.00 18.96
ATOM	4176	CB	VAL B					73.988	1.00 17.32
ATOM	4177	CG1				38.691	-5.800	76.462	1.00 15.33
ATOM	4178	CG2	VAL B			38.621	-5.531		1 00 22 12
ATOM	4179	С	VAL B	149		40.763	-7.709	74.166	1.00 22.12
ATOM	4180	0	VAL B	149		40.240	-8.535	73.421	1.00 21.83
ATOM	4181	N	GLY B	150		41.927	-7.120	73.903	1.00 19.51
ATOM									

						600	
n mom	4182	CA (GLY B 150	42.557	-7.433	72.689	1.00 19.32
MOTA			GLY 3 150	43.033	-8.901	72.606	1.00 19.59
ATOM	4183			42.862		71.568	1.00 22.28
ATOM	4184		GLY B 150				1.00 19.51
ATOM	4185	N	ILE B 151	43.558	-9.435	73.700	
	4186		ILE B 151	43.958	-10.834	73.723	1.00 23.21
ATOM			ILE B 151	44.666		75.053	1.00 23.50
MOTA	4187			44.918	12 670	75.158	1.00 20.01
MOTA	4188	CG2	ILE B 151				1.00 21.98
ATOM	4189	CGI	ILE B 151	45.988		75.129	
		CD1	ILE B 151	46.716	-10.502	76.457	1.00 21.24
MOTA	4190			42.749		73.490	1.00 28.40
ATOM	4191	C	ILE B 151				1.00 22.96
ATOM	4192	0	ILE B 151	42.832		72.706	
	4193		GLU B 152	41.623	-11.450	74.144	1.00 27.32
ATOM			GLU E 152	40.417	-12.265	73.939	1.00 27.62
MOTA	4194			39.294		74.886	1.00 26.46
ATOM	4195	CB	GLU B 152			-	1.00 28.26
ATOM	4196	CG	GLU B 152		-12.200	76.347	
	4197	CD	GLU B 152	39.513	-13.708	76.5 9 2	1.00 31.10
ATOM					-14.123	77.767	1.00 29.55
MOTA	4198	OEI			-14.481	75.617	1.00 30.51
ATOM	4199	OE2	GLU B 152				1.00 30.30
ATOM	4200	С	GLU B 152	39.948	-12.125	72.497	
	4201	0	GLU B 152	39.463	-13.082	71.893	1.00 25.58
MOTA			TYR B 153	40.093	-10.923	71.948	1.00 26.23
MOTA	4202	N			-10.669	70.563	1.00 28.19
MOTA	4203	CA	TYR B 153				1.00 27.94
MOTA	4204	CB	TYR B 153	40.082	-9.235	70.190	
	4205	CG	TYR B 153	39.379	-8.886	68.735	1.00 28.46
ATOM			TIN D 153	38.618	-8.560	68.240	1.00 25.69
ATOM	4206	CD1	TYR B 153			66.898	1.00 30.73
ATOM	4207	CEl	TYR B 153	38.447	-8.195		
ATOM	4208	CD2	TYR B 153	40.962	-8.847	67.856	
		CE2	TYR B 153	40.801	-8.488	66.526	1.00 29.26
MOTA	≟2 09			39.547	-8.161	66.054	1.00 31.25
ATOM	4210	CZ	TYR B 153			64.735	1.00 34.22
ATOM	4211	OH	TYR B 153	39.406			1.00 34.22
ATOM	4212	С	TYR B 153	40.513	-11.627	69.674	1.00 28.11
			TYR B 153	39.975	-12.248	68.759	1.00 22.06
ATOM	4213	0			-11.725	69.944	1.00 26.77
MOTA	4214	N	LEU B 154			69.168	1.00 28.79
MOTA	4215	CA	LEU B 154		-12.597		1.00 28.06
ATOM	4216	CB	LEU B 154		-12.386	69.592	1.00 28.00
		ĊĠ	LEU B 154	44.789	-11.087	69.083	1.00 27.71
MOTA	4217		LEU B 154		-10.860	69.759	1.00 34.15
MOTA	4218	CD1				67.571	1.00 26.71
ATOM	4219	CD2	LEU B 154	44.900	-11.171		1.00 25.98
ATOM	4220	С	LEU B 154	42.299	-14.074	69.274	1.00 20.00
	4221	Ö	LEU B 154	42.282	-14.787	68.271	1.00 29.88
MOTA				41 996	-14.536	70.480	1.00 23.19
MOTA	4222	Ŋ			-15.936	70.669	1.00 29.47
ATOM	4223	CA	ARG B 155				1.00 28.53
ATOM	4224	СB	ARG B 155		-16.230	72.144	1.00 20.55
	4225	CG	ARG B 155	42.527	-15.965	73.053	1.00 35.03
ATOM			ARG B 155	42 212	-16.276	74.507	1.00 39.42
ATOM	4226	CD		42 165	-17.706	74.792	1.00 30.99
ATOM	4227	ΝE	ARG B 155				1.00 41.33
MOTA	4228	CZ	ARG B 155	41.869	-18.209	75.986	1.00 41.33
	4229	NTH 1	ARG B 155	41.591	-17.394	77.002	1.00 38.47
MOTA			100 D 155	41 872	-19.523	76.178	1.00 40.67
MOTA	4230	NH2		40 303	-16.260	69.832	1.00 29.07
ATOM	4231	С	ARG B 155				1.00 25.31
ATOM	4232	0	ARG B 155	40.325	-17.311	69.203	
	4233	74	LYS B 156	39.419	-15.357	69.828	
MOTA			LYS B 156	38 216	-15.573	69.038	1.00 34.63
ATOM	4234	CA	712 B 130	37 110	-14.534	69.386	
MOTA	4235	CB	LYS B 156	37.140	14.334		
ATOM	4236	CG	LYS B 156	36.393	-14.883	70.646	
	1007	CD	LYS B 156	37.292	-14.900	71.868	1.00 51.38
ATCM	4237		1.70 D 156		-15.712	73.009	1.00 52.76
atom	423,8		LYS B 156	26 661	-17.172	72.677	
ATOM	4239	NZ	LYS B 156				
	4240		LYS B 156		-15.562		1.00 37.00
ATOM			LYS B 156	37.722	-16.088	66.754	
ATCM	4241		710 2 220		-14.966		1.00 30.06
ATCM	4242		LYS B 157	20 204	-14.945		
ATOM	4243	CA	LYS B 157				
	4244		LYS B 157	40.888	3 -13.746	65.418	
ATCM			LYS B 157	40.157	7 -12.426	65.359	
atom	4245			39 131	2 -12.424	64.239	1.00 28.48
ATOM	4246		LYS B 157		-11.101		
ATCM	4247		LYS B 157	30.39) -TT.IA	. 54.1/1	

ATOM	4248	NZ	LYS B	157		37.406	-11.380	63.054	1.00	32.91
ATOM	4249	C	LYS B				-16.234	65.381		31.92
ATOM	4250	Ō	LYS B			41.146	-16.421	64.246	1.00	33.58
ATOM	4251	N	GLY B			40.890	-17.111	66.368	1.00	28.97
ATOM	4252	CA	GLY B	158		41.546	-18.379	66.112	1.00	28.98
ATOM	4253	С	GLY B			42.962	-18.569	66.622	1.00	33.33
ATOM	4254	0	GLY B			43.503	-19.672	66.522	1.00	30.58
ATOM	4255	N	PHE B			43.578	-17.521	67.164	1.00	32.80
ATOM	4256	CA	PHE B.			44.937	-17.657	67.678		28.89
ATOM	4257	CB -				45.560	-16.286	67,934	_	30.33
MOTA	4258	CG	PHE B				-15.470	66.692		28:53
ATOM	4259	CD1	PHE B				-14.787	66.121		24.58
ATOM	4260	CD2	PHE B		•		-15.420	66.068		24.21
ATOM	4261	CE1	PHE B				-14.066	64.948		25.26
MOTA	4262	CE2	PHE B				-14.706	64.895		23.66
ATOM	4263	CZ	PHE B				-14.026	64.332		26.65
ATOM	4264	C	PHE B				-18.484	68.958		30.92 24.26
ATOM	4265	0	PHE B				-18.334 -19.347	69.820 69.077		28.86
ATOM	4266	N	LYS B	160			-20.224	70.237		30.27
ATOM	4267 4268	CA CB		160			-21.692	69.800		32.05
ATOM ATOM	4269	CG	LYS B				-22.117	69.113		41.13
ATOM	4270	CD	LYS B				-23.621	68.826		40.73
ATOM	4271	CE	LYS B				-24.031	67.904		43.16
ATOM	4272	NZ	LYS B				-23.408	66.554		48.69
ATOM	4273	C		160			-19.997	71.048	1.00	28.23
ATOM	4274			160		47.552	-20.561	72.130	1.00	25.29
ATOM	4275	N	ARG B	161		48.320	-19.206	70.520	1.00	28.51
ATOM	4276	CA	ARG B	161			-18.921	71.247		25.84
ATOM	4277	CB	ARG B				-19.719	70.667		25.33
MOTA	4278	CG	ARG B				-21.245	70.781		27.47
MOTA	4279	CD	ARG B				-21.985	70.394		32.27
MOTA	4280	NE		161			-21.761	69.002		34.90
ATOM	4281	CZ	ARG B				-22:276	67.954		38.45
ATOM	4282		ARG B				-23.056	68.130		38.77 38.64
ATOM	4283	NH2	ARG B				-22.000 -17.421	66.725 71.182		30.40
ATOM	4284 4285	С 0	ARG B				-16.912	70.218		27.50
ATOM ATOM	4286	N		162			-16.722	72.221		25.64
ATOM	4287	CA	ILE B				-15.273	72.303		27.44
ATOM	4288	CB	ILE B	162			-14.618	72.545		24.53
ATOM	4289	CG2	ILE B				-13.101	72.473	1.00	25.49
ATOM	4290	CG1		162		47.142	-15.101	71.487	1.00	29.46
ATOM	4291	CD1	ILE B	162		45.688	-14.707	71.758	1.00	31.94
ATOM	4292	С	ILE B				-14.868	73.429		22.68
ATOM	4293	0	ILE B	162			-15.302	74.568	1.00	24.25
ATOM	4294	N	LEU B				-14.042	73.100		19.49
ATOM	4295	CA	LEU B				-13.561	74.081		17.57
ATOM	4296	CB	LEU B				-13.686	73.528		20.54
ATOM	1297	CG	LEU B		•		-12.975	74.295		18.84
ATOM	4298		LEU B				-13.538	75.690		20.55
ATOM	4299		LEU B				-13.148	73.556		18.57 16.20
ATCM	4300	c	LEU B				-12.099	74.430 73.549		16.09
ATOM	4301	O M	LEU B				-11.277 -11.780	75.715		14.05
ATOM	4302 4303	N CA	TYR B				-10.411	76.191		16.21
atom atom	4303	CB	TYR B				-10.323	77.070		16.01
ATOM	4305	CG	TYR B			50.534	-8.948	77.667		15.08
ATOM	4305	CD1	TYR B			50.148		. 76.869		19.51
ATOM ATOM	4307	CE1	TYR B			49.948	-6.597	77.418		12.88
ATOM	4308	CD2	TYR B			50.715	-8.724	79.021	1.00	14.07
ATOM	4309	CE2				50.520	-7.463	79.583		13.66
ATOM	4310	CZ	TYR B			50.139	-6.407	78.782	1.00	14.72
ATOM	4311	ОН	TYR B			49.952	-5.163	79.354		13.54
ATOM	4312	С	TYR B	164			-10.017	77.018		19.14
ATOM	4313	0	TYR B	164		53.539	-10.642	78.036	1.00	26.51

N

1.00 22.40

182/263 Figure 18-66

53.964

ILE B 165

76.573

-8.992

MOTA 4314 1.00 17.72 77.285 55.148 -8.518 ILE B 165 4315 CA MOTA 76.343 1.00 22.51 -8.465 56.352 ILE B 165 4316 CB MOTA 57.582 -7.902 77.079 1.00 16.36 CG2 ILE B 165 4317 MOTA 1.00 19.82 75.818 CG1 ILE B 165 56.632 -9.880 MOTA 4318 74.742 1.00 21.74 57.721 -9.942 CD1 ILE B 165 4319 MOTA 1.00 22.54 54.851 -7.126 77.850 ILE B 165 ILE B 165 4320 С MOTA 1.00 16.60 77.111 54.478 -6.223 4321 0 MOTA 1.00 15.78 79.156 -6.961 55.046 ASP B 166 4322 N MOTA 1.00 20.62 1.00 17.57 54.740 -5.704 79.840 ASP B 166 4323 CA MOTA -5.996 80.949 53.719 ASP B 166 4324 CB MOTA -4.742 1.00 25.39 81.486 53.063 CG ASP B 166 4325 MOTA 1.00 19.68 53.779 82.003 -3.859 OD1 ASP B 166 MOTA 4326 81.377 1.00 29.22 51.824 -4.637 OD2 ASP B 166 4327 MOTA 1.00 19.01 80.423 55.976 -5.002 **ASP B 166** 4328 С MOTA 1.00 19.74 1.00 17.88 -5.412 81.456 **ASP B 166** 56.509 4329 0 MOTA 56.414 57.598 58.412 -3.923 79.775 4330 N LEU B 167 MOTA 1.00 14.99 80.235 4331 CA -3.211 LEU B 167 ATOM 1.00 19.22 -2.710 79.044 LEU B 167 CB 4332 MOTA 1.00 22.68 58.871 -3.799 78.069 LEU B 167 CG 4333 ATOM 77.074 1.00 25.35 CD1 LEU B 167 59.835 -3.179 MOTA 4334 -4.943 78.808 1.00 17.54 CD2 LEU B 167 59.570 MOTA 4335 1.00 17.49 57.284 81.183 -2.059 LEU B 167 4336 MOTA С 1.00 13.39 -1.359 81.639 58.189 LEU B 167 4337 0 MOTA 1.00 20.03 81:479 56.003 -1.878ASP 5 168 ATOM 4338 N 1.00 21.98 82.412 55.549 -0.848 **ASP B 168** 4339 ATOM CA 1.00 21.21 54.030 -0.955 82.597 ASP B 168 4340 CB MOTA 1.00 24.92 1.00 22.98 83.428 53.453 **ASP B 168** 0.186 4341 CG MOTA -1.139 83.753 56.241 4342 **ASP B 168** C ATOM 1.00 18.36 56.447 52.849 84.091 -2.304 **ASP B 168** ATOM 4343 0 1.00 22.03 1.099 82.825 OD1 ASP B 168 4344 ATOM 1.00 18.43 53.606 0.189 84.676 OD2 ASP B 168 4345 MOTA 84.514 1.00 15.46 56.581 -0.095 ALA B 169 4346 N MOTA 1.00 18.73 -0.268 85.807 57.263 57.764 ALA B 169 . ATOM 4347 CA 1.00 11.98 1.084 86.323 ALA B 169 4348 CB MOTA 1.00 21.82 86.886 -0.940 56.400 ALA B 169 4349 С MOTA 1.00 22.51 87.980 56.886 -1.262 ALA B 169 ATOM 4350 0 86.600 1.00 18.75 -1.134 55.120 HIS B 170 N ATOM 4351 1.00 22.70 1.00 22.11 87.570 54.238 -1.776 HIS B 170 ATOM 4352 CA87.015 53.716 -3.096 HIS B 170 4353 С ATOM 1.00 21.94 85.809 53.536 -3.244 HIS B 170 4354 0 ATOM 87.927 1.00 21.28 -0.867 53.050 HIS B 170 ATOM 4355 CB 1.00 18.89 53.449 0.475 88.460 HIS B 170 CG MOTA 4356 1.00 19.13 87.626 ND1 HIS B 170 53.695 1.539 4357 ATOM 1.00 19.41 2.539 88.412 CE1 HIS B 170 54.046 4358 MOTA 1.00 19.02 0.854 89.746 53.660 CD2 HIS B 170 MOTA 4359 1.00 20.45 89.710 54.042 2.174 NE2 HIS B 170 4360 MOTA 1.00 19.20 87.907 53.474 52.961 -4.047 HIS B 171 4361 N ATOM 1.00 21.20 -5.352 87.519 HIS B 171 CA ATOM 4362 1.00 22.00 88.722 52.964 -6.284 HIS B 171 4363 CB MOTA -7.683 88.400 1.00 24.64 52.541 HIS B 171 ATOM 4364 CG 1.00 19.19 53.056 -8.594 87.540 CD2 HIS B 171 ATOM 4365 1.00 25.71 88.979 51.441 -8.279 ND1 HIS B 171 4366 MOTA 88.487 1.00 25.30 -9.497 51.295 CE1 HIS B 171 4367 MOTA 1.00 24.71 52.261 -9.713 87.612 NE2 HIS B 171 4368 ATOM 1.00 23.91 86.943 51.549 -5.306 HIS B 171 С 4369 ATOM 87.479 1.00 18:93 -4.620 50.677 HIS B 171 0 4370 MOTA 1.00 15.36 -6.062 85.865 51.332 CYS B 172 4371 N MOTA 1.00 20.03 50.036 85.207 -6.141CYS 3 172 CA 4372 MOTA 1.00 22.46 -6.534 83.732 50.240 CYS B 172 4373 CB ATOM 1.00 23.49 83.419 ~3.030 CYS B 172 51.259 4374 SG MOTA 1.00 18.05 85.913 -7.146 49.110 4375 CYS B 172 С MOTA 1.00 18.23 85.327 48.712 -8.151 CYS B 172 4376 O ATOM 1.00 16.78 -6.871 87.170 ASP B 173 48.767 ATOM 4377 N 1.00 18.81 -7.776 87.928 47.909 CA ASP B 173 4378 ATOM 89.344 1.00 20.39 47.638 -7.236 ASP B 173 **4379** CB ATCM

ATOM	4380	CG	ASP B	173	46.961	-5.871	89.354	1 00	23.40
ATOM	4381	OD1			46.564	-5.435	90.455		18.64
ATOM	4382	OD2	ASP B		46.834	-5.231	88.291		19.24
					46.595	-8.116	87.219		17.46
MOTA	4383	C	ASP B						
ATOM	4384	0	ASP B		46.162	-9.272	87.224		15.53
atom	4385	N	GLY B		45.978	-7.130	86.580		13.46
ATOM	4386	CA	GLY B		44.733	-7.391	85.876		18.18
ATOM	4387	С	GLY B		44.904	-8.392	84.741		17.85
ATOM	4388	0	GLY B	174	44.104	-9.316	84.583	1.00	18.27
ATOM	4389	N	VAL B	175	45.951	-8.214	83.943	1.00	16.14
MOTA	4390	CA	VAL B	175	46.206	-9.111	82.829	1.00	17.00
ATOM	4391	CB	VAL B	175	47.305	-8.552	81.902	1.00	27.22
ATOM	4392	CG1			47.533	-9.507	80.731	1.00	19.75
ATOM	4393		VAL B		46.896	-7.169	81.396		18.66
ATOM	4394	C	VAL B			-10.486	83.324		22.82
ATOM	4395	ō	VAL B		46.255	-11.503	82.754		18.06
ATOM	4396	N	GLN B			-10.520	84.378		21.67
ATOM	4397	CA	GLN B			-11.798	84.911		21.55
ATOM	4398	CB	GLN B			-11.602	86.105		19.68
	4399	CG	GLN B			-12.905	86.862		20.17
ATOM ATOM	4400	CD	GLN B			-12.759	87.996		25.42
	4401	OE1	GLN B			-12.442	87.786		21.56
ATOM			GLN B		49.592	-13.000	89.217		20.18
ATOM	4402	NE2							24.78
ATOM	4403	C	GLN B			-12.630	85.348		
MOTA	4404	0	GLN B			-13.817	85.057		22.91
ATOM	4405	N	GLU B			-12.007	86.051		23.69
MOTA	4406	CA	GLU B			-12.727	86.523		27.01
MOTA	4407	CB	GLU B			-11.825	87.394		24.73
ATOM	4408	CG	GLU B		42.633	-12.581	88.138		37.46
MOTA	4409	CD	GLU B			-11.676	88.987		42.48
MOTA	4410	OE1				-11.002	88.432		44.35
MOTA	4411	OE2	GLU B		41.993	-11.627	90.213		45.63
MOTA	4412	С	GLU B			-13.247			26.56
ATOM	4413	О	GLU B			-14.375	85.408		27.71
ATOM	1414	N	ALA B			-12.418	84.344		24.58
MOTA	4415	CA	ALA B			-12.775	83.174		25.86
ATOM	4416	CB	ALA B			-11.628	82.171		24.20
ATOM	4417	С	ALA B	178	43.231	-14.054	82.485		25.72
MOTA	4418	0	ALA B			-14.838	82.036		22.38
ATOM	4419	N	PHE B			-14.282	82.395		27.19
ATOM	4420	CA	PHE B		44.990	-15.489	81.703		27.05
MOTA	4421	CB	PHE B			-15.086	80.418	-	25.22
MOTA	4422	CG	PHE B	179	44.992	-14.020	79.644		20.36
MOTA	4423	CD1			45.387	-12.687	79.735		25.23
ATOM	4424	CD2	PHE B	179	43.860	-14.332	78.902	1.00	19.22
ATOM	4425		PHE B			-11.6?7	79.102		19.25
ATOM	4426	CE2	PHE B	179	43.128	-13.315	78.272		20.65
ATOM	4427	CZ	PHE B	179	43.528	-12.0C1	78.374	1.00	25.64
ATOM	4428	С	PHE B	179	45.866	-16.398	82.556	1.00	23.50
ATOM	4429	0	PHE B	179	46.652	-17.182	82.038	1.00	18.26
ATOM	4430	N	TYR B		45.689	-16.313	83.868	1.00	23.24
ATOM	4431	CA	TYR B		46.479	-17.106	84.799	1.00	26.76
ATOM	4432	CB	TYR B		46.150	-16.665	86.231	1.00	25.72
ATOM	4433	CG	TYR B			-16.969	87.247	1.00	29.66
ATOM	4434	CD1	TYR B			-17.942	88.237	1.00	27.07
ATOM	4435	CE1	TYR B			-18.222	89.170	1.00	30.08
ATOM	4436	CD2	TYR B			-16.283	87.216	1.00	29.68
ATOM	4437	CE2	TYR B			-16.552	88.139		30.99
ATOM	4438	CZ	TYR B			-17.521	89.112		33.16
ATOM	1439	OH	TYR B			-17.791	90.006		28.47
	1440	C	TYR B			-18.619	84.649		29.13
ATOM		0	TYR B			-19.416	84.922		23.43
ATOM	1441 4442	N	ASP B			-19.021	84.190		25.67
atom atom	4443	CA	ASP B	181		-20.445	84.075		28.28
ATOM	1444	CB	ASP B			-20.759	84.757		32.13
ATCM	1445	CG	ASP B			-20.410	83.890		36.12
								-	

4446

OD1 ASP B 181

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42.202 -19.300 83.329 1.00 41.04

MOTA 41.334 -21.249 83.782 1.00 44.36 4447 OD2 ASP B 181 MOTA 82.664 44.773 -21.018 1.00 32.41 ASP B 181 4448 ATOM C 44.246 -22.115 45.345 -20.302 1.00 31.67 1.00 29.24 82.444 ASP B 181 4449 0 ATOM 81.702 THR B 182 4450 N MOTA 45.363 -20.823 44.468 -20.008 80.340 1.00 30.57 CA THR B 182 4451 ATOM 1.00 30.03 79.397 CB THR B 182 OG1 THR B 182 4452 ATOM 44.516 -20.598 78.095 1.00 28.22 ATOM 4453 44.947 -18.561 1.00 26.55 79.310 CG2 THR B 182 4454. ATOM 46.759 -20.870 79.740 1.00 32.31 THR B 182 4455 С ATOM 47.591 -20.007 80.008 1.00 27.27 THR B 182 4456 0 MOTA 46.999 -21.878 48.296 -22.049 78.909 1.00 29.94 4457 N ASP B 183 ATOM 78.273 1.00 31.40 ASP B 183 CA ATOM 4458 48.648 -23.536 1.00 33.36 78.228 **ASP B 183** 4459 CB ATOM 47.718 -24.319 77.328 1.00 33.33 **ASP B 183** ATOM 4460 CG 1.00 28.06 46.513 -23.988 77.287 OD1 ASP B 183 4461 ATOM 76.675 1.00 38.19 48.186 -25.271 ATOM 4462 OD2 ASP B 183 48.321 -21.462 49.332 -21.557 47.217 -20.852 1.00 31.14 76.864 ASP B 183 4463 С ATOM 1.00 28.74 76.168 0 ASP B 183 4464 ATOM 76.446 1.00 25.34 GLN B 184 4465 N MOTA GLN B 184 47.151 -20.251 75.118 1.00 28.59 MOTA 4466 CA 74.581 1.00 26.84 45.712 -20.256 GLN B 184 4467 CB **ATOM** 45.060 -21.632 74.529 1.00 34.86 GLN B 184 4468 CG ATOM 43.760 -21.647 42.897 -20.789 43.611 -22.641 73.736 1.00 32.27 4469 CD GLN B 184 ATOM 73.912 1.00 35.43 OE1 GLN B 184 4470 MOTA 72.870 1.00 28.92 NE2 GLN B 184 C GLN B 184 4471 MOTA 47.672 -18.817 75.175 1.00 27.28 ATOM 4472 GLN B 184 47.871 -18.171 74.148 1.00 29.70 4473 ATOM 0 76.386 47.900 -18.325 1.00 27.64 N 4474 VAL B 185 ATOM 48.400 -16.972 47.304 -16.039 47.879 -14.642 1.00 26.26 1.00 22.85 76.575 CA VAL B 185 4475 MOTA 77.145 CB VAL B 185 4476 MOTA 1.00 23.10 77.395 CG1 VAL B 185 4477 MOTA 1.00 21.67 CG2 VAL B 185 46.136 -15.967 76.191 4478 MOTA 49.570 -16.964 49.456 -17.469 50.696 -16.403 51.868 -16.301 77.547 1.00 27.01 VAL B 185 MOTA 4479 Ċ 78.663 1.00 23.75 0 VAL B 185 4480 ATOM 1.00 22.02 PHE B 186 77.115 MOTA 4481 N 77.978 1.00 21.83 PHE B 186 4482 CAMOTA 53.142 -16.763 77.252 1.00 17.02 PHE B 186 4483 CB MOTA 1.00 24.84 54.336 -16.921 78.170 PHE B 186 4484 CG MOTA 1.00 22.70 1.00 20.26 54.756 -18.189 78.580 4485 CD1 PHE B 186 ATOM 78.670 55.004 -15.805 CD2 PHE B 186 4486 MOTA 1.00 21.47 55.819 -18.338 56.071 -15.941 79.471 CE1 PHE B 186 4487 MOTA 79.563 1.00 20.01 CE2 PHE B 186 4488 ATOM 56.481 -17.206 1.00 17.84 79.968 CZ PHE B 186 4489 MOTA 78.368 1.00 18.12 52.032 -14.827 4490 С PHE B 186 ATOM 1.00 15.92 52.038 -13.946 77.508 PHE B 186 4491 ATO . 0 52.161 -14.565 52.348 -13.208 51.282 -12.839 79.661 1.00 18.06 VAL B 187 4492 N ATO.4 1.00 17.67 80.153 4493 CA VAL B 187 ATOr: 81.225 1.00 22.85 4494 VAL B 187 CB MOTA 51.608 -11.473 1.00 24.08 81.840 4495 CG1 VAL B 187 MOTA 80.598. 1.00 18.82 49.882 -12.808 CG2 VAL B 187 1496 MOTA 53.735 -13.060 80.788 1.00 18.32 4497 VAL B 187 С MOTA 81.707 1.00 18.82 54.092 -13.807 1498 VAL B 187 0 MOTA 1.00 14.70 LEU B 188 54.503 -12.103 80.282 4499 N ATOM 55.832 -11.789 80.798 1.00 18.84 LEU B 188 4500 CA MOTA 56.900 -11.948 79.716 1.00 18.64 LEU B 188 4501 CB ATCM 80.082 1.00 21.23 58.230 -11.277 CG LEU B 188 4502 ATOM 81.395 1.00 18.55 CD1 LEU B 188 58.769 -11.832 ATOM 4503 78.957 1.00 20.49 59.227 -11.489 CD2 LEU B 188 4504 ATOM 1.00 22.14 81.280 55.836 -10.339 LEU B 188 4505 ATCM 1.00 19.96 80.517 55.527 -9.410 LEU B 188 0 ATOM 4506 1.00 21.08 82.540 56.187 -10.133 4507 N **SER B 189** ATOM 1.00 21.85 83.061 56.203 -3.782 SER B 189 4508 CA - ATOM 1.00 25.95 83.908 SER B 189 54.956 -8.543 4509 CB ATOM 84.475 1.00 21.91 54.988 -7.252 SER B 189 4510 OG ATCM 83.883 1.00 23.62 57.423 -8.420 SER B 189 4511 C ATCM

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ATOM	4512	Э	SER B	180	57.829	-9.174	84.766	1.00 18.61
ATOM	4513	N	LEU B	190	58.020	-7.269	83.569	1.00 20.33
ATOM	4514	CA	LEU B	190	59.149	-6.767	84.347	1.00 21.85
ATOM	4515	CB	LEU B	190	60.278	-6.226	83.473	1.00 22.85
ATOM	4516	CG	LEU B	190	60.964	-7.089	82.413	1.00 32.59
MOTA	4517	CD1	LEU B	190	62.337	-6.479	82.140	1.00 29.27
	4518		LEU B		61.136	-8.511	82.379	1.00 31.98
MOTA								
ATOM	4519	C	LEU B	190	58.505	-5.613	85.085	1.00 21.28
MOTA	4520	0	LEU B	190	57.695	-4.897	84.501	1.00 15.72
_				191	58.857	-5.421	86.351	1.00 18.16
ATCM	4521		HIS B					
ATOM	4522	CA	HIS B	191	58.249	-4.357	87.145	1.00 17:46
ATOM	4523	CB	HIS B	191	56.759	-4.690	87.369	1.00 16.00
					56.517	-6.085	87.880	1.00 22.14
ATOM	4524	CG						
ATOM	4525	CD2	HIS B	191	56.341	-6.551	89.143	1.00 12.25
ATOM	4526	ND1	HIS B	191	56.372	-7.179	87.049	1.00 18.02
	4527		HIS B		56.119	-8.256	87.775	1.00 8.17
MOTA								
MOTA	4528	NE2			56.094	-7.902	89.049	1.00 19.79
ATOM	4529	С	HIS B	191	58.945	-4.197	88.484	1.00 17.41
ATOM	4530	0		191	59.769	-5.029	88.867	1.00 18.74
MOTA	4531	Ŋ	GLN B	192	58.618	-3.114	89.182	1.00 18.20
ATOM	4532	CA	GLN B	192	59.173	-2.854	90.502	1.00 18.41
ATOM	4533	CB	GLN B	192	58.690	-1.500	91.034	1.00 20.71
ATOM	4534	CG	GLN B	192	58.871	-0.334	90.072	1.00 21.49
MOTA	4535	CD	GLN B	192	58.226	0.930	90.594	1.00 20.65
MOTA	4536	OE1	GLN B	192	58.7 7 5	1.615	91.459	1.00 21.52
	4537	NE2	GLN B	192	57.029	1.226	90.098	1.00 15.10
MOTA								
ATOM	4538	С	GLN B	192	58.608	-3945	91.395	1.00 17.55
ATOM	4539	0	GLN B	192 -	57.415	-4.256	91.320	1.00 17.48
ATOM	4540	Ŋ	SER B	193	59.447	-4.522	92.240	1.00 15.71
ATOM	4541	CA	SER B	193	58.986	-5.574	93.143	1.00 20.58
ATOM	4542	CB	SER B	193	60.093	-5.963	94.120	1.00 20.71
MOTA	4543	OG	SER B	193	59.571	-6.804	95.138	1.00 22.55
	4544	c	SER B	193	57.774	-5.112	93.947	1.00 21.81
MOTA								
ATOM	4545	J	SER B	193	57.769	-4:003	94.486	1.00 20.82
MOTA	4546	N	PRO B	194	56.745	-5.967	94.063	1.00 21.80
ATOM	4547	CD	PRO B	194	56.648	-7.331	93.524	1.00 24.27
atom	4548	CA	PRO B	194	55.524	-5.643	94.812	1.00 23.58
MOTA	4549	CB	PRO B	194	54.678	-6.909	94.642	1.00 22.98
ATOM	4550	CG	PRO B	194	55.168	-7.458	93.317	1.00 26.35
	4551	c	PRO B	194	55.841	-5.366	96.283	1.00 25.79
MOTA								
ATOM	4552	O	PRO B	194	55.009	-4.831	97.022	1.00 27.26
ATOM	4553	:1	GLU B	195	57.045	-5.736	96.710	1.00 23.20
ATOM	4554	CA	GLU B	195	57.428	-5.514	98.093	1.00 29.56
	4555				58.816			
ATOM		CB		195		-6.090	98.379	1.00 32.38
ATOM	4556	CG	GLU B	195	58.940	-7.567	98.049	1.00 45.25
ATOM	4557	CD	GLU B	195	60.206	-8.189	98.613	1.00 50.44
ATOM	4558	OFI	GLU B	195	61.290	-7.580	98.471	:.00 50.51
MOTA	4559		GLU B		60.118	-9.297	99.184	.00 49.77
ATOM	4560	C	GLU B	195	57.414	-4.035	98.425	1.00 25.11
ATOM	4561	0	GLU B	195	57.095	-3.659	99.551	1.00 29.05
	4562	N	TYR B		57.729	-3.191	97.445	1.00 22.90
ATOM								
ATOM	4563	CA	TYR B	196	57.743	-1.750	97.696	1.00 22.46
ATCM	4564	CВ	TYR B	196	59.188	-1.223	97.668	1.00 22.72
ATOM	.4565	CG	TYR B		59.855	-1.234	96.301	1.00 24.17
MOTA	4566		TYR B		59.639	-0.203	95.385	1.00 20.87
ATOM	4567	CE1	TYR B	196	60.229	-0.222	94.118	1.00 18.31
ATOM	4568	CD2		196	60.684	-2.289	95.916	1.00 24.63
					61.276	-2.318	94.648	1.00 24.39
ATOM	4569	CE2	TYR B					
ATOM	4570	CZ	TYR B		61.042	-1.284	93.756	1.00 23.01
ATCM	4571	OH	TYR 3	196	61.592	-1.328	92.492	1.00 19.86
ATOM	4572	c		196	56.896	-0.938	96.725	1.00 23.54
ATOM	4573	0	TYR B		56.779	0.275	96.869	1.00 17.53
ATOM	4574	Ŋ	ALA B		56.293	-1.589	95.740	1.00 22.11
ATOM	4575	CA	ALA B	197	55.503	-0.829	94.779	1.00 24.28
		CB	ALA B		56.310	-0.616	93.513	1.00 23.03
ATOM	4576							
ATOM	4577	С	ALA B	197	54.153	-1.412	94.413	1.00 22.80

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ATOM ATOM ATOM ATOM ATOM ATOM MOTA MOTA	4578 4579 4580 4581 4582 4583 4584 4585	N I CA I CB I CG I CD1 I CD2	ALA B PHE B PHE B PHE B PHE B PHE B	198 198 198 198 198	53.910 53.278 51.956 51.152 49.721 48.732 49.367 47.410	-2.609 -0.541 -0.950 0.263 -0.050 0.100 -0.533 -0.223	93.932 93.495 93.035 92.711 93.674 91.455 93.394	1.00 17.67 1.00 26.40 1.00 28.19 1.00 29.51 1.00 29.50 1.00 32.77 1.00 25.82 1.00 36.70
ATOM	4586	CE2	PHE E	. 198	48.050	-0.858	91.170	1.00 29.29 1.00 33.05
ATOM	4587		PHE B		47.071 52.170	-0.703 -1.858	92.141 92.284	1.00 28.28
MOTA	4588		PHE E		53.045	-1.602	91.456	1.00 27.15
MOTA MOTA	4589 4590		PRO E		51.407	-2.952	92.185	1.00 31.37
ATOM	4591	CD	PRO E	199	51.440	-3.887	91.045	1.00 37.07 1.00 35.32
ATOM	4592		PRO E	199	50.386 49.545	-3.369 -4.328	93.144 92.321	1.00 33.32
ATOM	4593		PRO E		50.641	-5.068	91.578	1.00 36.75
MOTA MOTA	4594 4595	CG C	PRO E		51.241	-4.082	94.184	1.00 36.93
ATOM	4596	ō	PRO E	3 199	52.308	-4.603	93.860	1.00 50.93 1.00 37.04
ATOM	4597	N		3 200	50.804 51.644	-4.127 -4.763	95.422 96.421	1.00 37.04
ATOM	4598	CA CB	PHE I	3 200 3 200	51.547	-3.968	97.723	1.60 28.70
MOTA MOTA	4599 4600	CG	PHE I		51.760	-2.485	97.543	1.00 29.98
ATOM	4601	CD1	PHE 1	3 200	50.717	-1.660	97.137 97.746	1.00 28.92 1.00 23.60
ATOM	4602			B 200	53.016 50.922	-1.919 -0.289	96.938	1.00 23.60
MOTA	4603	CE1	PHE :	B 200 B 200	53.229	-0.558	97.547	1.00 23.56
MOTA MOTA	4604 4605	CZ	PHE :	B 200	52.182	0.260	97.143	1.00 28.37
ATOM	4606	c	PHE :	в 200	51.296	-6.227	96.658	1.00 25.51 1.00 20.92
MOTA	4607	0	PHE	B 200	52.112 50.094	-6.984 -6.618	97.167 96.252	1.00 27.41
ATOM	4608	N	GLU	B 201 B 201	49.576	-7.972	96.454	1.00 31.98
ATOM ATOM	4609 4610	CA CB	GLU	B 201	48.056	-7.928	96.487	1.00 31.57
ATOM	4611	CG	GLU	B 201	47.486	-6:935	97.449 97.316	1.00 39.17 1.00 40.31
ATOM	4612	CD	GLU	B 201	45.987 45.332	-6.853 -7.902	97.500	1.00 38.90
MOTA	4613 4614	OE1 OE2		B 201 B 201	45.475	-5.751	97.019	1.00 35.04
ATOM ATOM	4615	C	GLU		49.979	-9.018	95.422	1.00 30.83
MOTA	4616	Ō	GLU	B 201		-10.219 -8.573	95.690 94.234	1.00 26.34 1.00 24.95
MOTA	4617	N	LYS	B 202	50.362 50.764	-8.573 -9.501	93.195	1.00 22.79
ATOM	4618 4619	CA CB	LVS	B 202 B 202	49.588	-9.773	92.258	1.00 25.12
ATOM ATOM	4620	CG	LYS	B 202	48.484	-10.523	93.000	1.00 35.38 1.00 38.67
MOTA	4621	CD	LYS	B 202	47.431	-11.099 -11.998	92.103 92.903	1.00 38.67 1.00 40.98
MOTA	4622	CE	LYS	B 202 B 202	45.498	-12.659	92.028	1.00 46.65
MOTA	4623 4624	NZ C	LYS	B 202	51.975	-9.007	92.435	1.00 24.62
MOTA MOTA	4625	Ö	LYS	B 202	52.355	-7.838	92.549	1.00 21.83 1.00 17.60
MOTA	4626	11		B 203	52.598 53.779	-9.910 -9.545	91.684 90.928	1.00 17.00
MOTA	4627	CA	GLY	B 203 B 203		-10.297	91.396	1.00 20.36
ATOM ATOM	4628 4629	C O	GLY	B 203	56.101	-10.070	90.888	1.00 23.83
MOTA	4630	N	PHE	B 204	54.855	-11.201	92.358	1.00 24.82 1.00 24.24
ATOM	4631	CA	PHE	B 204	55.992	-11.957 -12.567	92.859 94.236	1.00 22.72
ATOM	4632	CB	PHE	B 204 B 204	55.485	-11.549	95.322	1.00 25.26
ATOM	4633 4634	CG CD1	PHE	B 204	54.235	-10.977	95.535	1.00 23.80
MOTA MOTA	4635	CD2	PHE	B 204	56.551	-11.159	96.133	
ATOM	4636	CEI	FHE	B 204		-10.036 -10.221		
MOTA	4637			B 204 B 204	55.124			1.00 25.54
ATOM	4638 4639			B 204	56.412	-13.057	91.894	1.00 25.86
atom atom	4640		PHE	в 204	55.613	-13.540	91.091	
MOTA	4641	N	LEU	B 205		-13.449 -14.472		
ATOM	4642		LEU	B 205 B 205		-14.472		
atom	1643	CB	العر	בטיב ע			•	

ATOM ATOM ATOM ATOM	4644 4645 4646 4647		LEU B LEU B LEU B	205 205 205 205		60.356 61.957	-15.669 -15.382 -15.629 -15.827	90.592 89.109 91.005 91.205	1.00 34.12 1.00 32.95 1.00 36.49 1.00 30.51
ATOM	4648	0	LEU 3	205			-16.562	90.220	1.00 25.89
ATOM	4649 4650	N CA		206 206			-16.147 -17.423	92.382 92.605	1.00 30.43 1.00 30.64
ATOM ATOM	4651	CB	GLU B				-17.601	94.093	1.00 34.77
ATOM	4652	CG	GLU B	206		57.227	-17.512	95.033	1.00 42.50
ATOM	4653	CD					-16.084	95.270	1.00 45.76 1.00 42.62
MOTA MOTA	4654 4655	0E1	GLU B	206 206			-15.438 -15.602	94.333 96.413	1.00 42.82
ATOM	4656	c	GLU 3			55.045	-17.587	91.811	1.00 31.13
ATOM	4657	0	GLU B	206			-18.708 -16.472	91.563	1.00 28.18 1.00 25.16
MOTA MOTA	4658 4659	N CA	GLU B	207 207			-16.472	91.425 90.664	1.00 23.10
ATOM	4660	CB	GLU B		•	52.546	-15.107	90.695	1.00 30.76
MOTA	4661	CG	GLU B			52.121		92.093	1.00 29.39 1.00 27.87
ATOM ATOM	4662 4663	CD OE1	GLU B	207 207		51.656	-13.151 -12.477	92.230 91.261	1.00 27.87 1.00 24.38
ATOM	4664	OE2	GLU B	207			-12.636	93.316	1.00 25.36
ATOM	4665	С	GLU B			53:453		89.224	1.00 29.48
MOTA MOTA	4666 4667	N O	GLU B			53.658 53.442	-16.077 -18.230	88.351 88.976	1.00 27.48 1.00 26.67
ATOM	4668	CA	ILE B			53.735	-18.754	87.646	1.00 32.60
MOTA	4669	CB	ILE B	208		54.789	-19.877	87.740	1.00 34.26
ATOM ATOM	4670 4671	CG2 CG1	ILE B	208 208		55.239 56.008	-20.296 -19.404	86.352 88.532	1.00 41.65 1.00 36.07
ATOM	4672	CD1					-18.338	87.851	1.00 45.18
MOTA	4673		ILE B			52.522		86.870	1.00 32.26
ATOM ATOM	4674 4675	и О	ILE B			52.668	-19.799 -19.165	85.759 87.442	1.00 27.43 1.00 32.60
ATOM	4676	CA	GLY B	209		50.139		86.760	1.00 35.07
ATOM	4677	C	GLY B		•	49.565	-20.892	87.420	1.00 36.19
MOTA ATOM	4678 4679	O N	GLY B			50.230 48.335	-21.524 -21.245	88.235 87.066	1.00 31.61 1.00 36.98
ATOM	4680	CA	GLU B			47.677		87.647	1.00 40.60
MOTA	4681	CB	GLU B			46.633	-21.964	88.672	1.00 37.98
ATOM ATOM	4682 4683	CG CD	GLU B				-21.234 -20.717	88.058 89.098	1.00 42.78 1.00 48.41
ATOM	4684	OE1	GLU B	210		43.400	-20.202	88.709	1.00 51.03
ATOM	4685	OE2	GLU B			-	-20.814	90.306	1.00 49.90
ATOM ATOM	4686 4687	С 0	GLU B				-23.248 -22.751	86.564 85.471	1.00 39.48 1.00 33.65
ATOM	4688	N	GLY B				-24.515	86.876	1.00 39.18
ATOM	4689	CA	GLT B				-25.399	85.923	1.00 38.43
MOTA MOTA	4690 4691	С 0	GLY B				-25.500 -25.610	84.637 84.666	1.00 40.29 1.00 39.39
ATOM	4692	Ŋ	LYS B	212		46.187	-25.458	83.504	1.00 40.90
ATOM	4693	CA	LYS B				-25.538	82.219	1.00 43.53
ATOM ATOM	4694 4695	CB	LYS B	212			-25.548 -26.665	81.080 81.144	1.00 47.87 1.00 53.09
ATOM	4696	CD	LYS B				-28.076	81.130	1.00 58.61
MOTA	4697	CE	LYS B				-28.454	82.452	1.00 59.78
ATOM	4698 4699	NZ C	LYS B				-29.825 -24.363	82.420 82.040	1.00 62.17 1.00 38.84
atom atom	4700	ò	LYS B	212			-24.457	81.295	1.00 40.33
ATOM	4701	N	GLY B	213			-23.262	82.731	1.00 37.20
ATOM	4702	CA	GLY B	213 213		-	-22.081 -22.107	82.627 83.505	1.00 34.66 1.00 37.09
atom atom	4703 4704	င ၁	GLI B				-21.165	83.489	1.00 25.85
ATOM	4705	N	LYS B	214		49.794	-23.180	84.273	1.00 33.33
ATOM	4706	CA	LYS B	214			-23.297 -24.598	85.148 85.954	1.00 37.90 1.00 38.89
ATOM ATOM	4707 4708	CB CG	LYS B				-24.396	86.938	1.00 39.29
ATOM	4709	CD	LYS B				-26.094	87.704	1.00 43.60



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ATOM	4710	CE	LYS B 2	14	53.047	-26.334	88.640	1.00 47.36	
ATOM	4711	NZ	LYS B 2		53.165	-25.264	89.666	1.00 54.03	
			LYS B 2			-23.275	84.291	1.00 34.16	
ATOM	4712	C				-24.136	83.438	1.00 34.70	
ATOM	4713	0	LYS B 2			-22.279	84.523	1.00 33.58	
MOTA	4714	N	GLY B 2					1.00 28.27	
MOTA	4715	CA	GLY B 2			-22.152	83.743		
MOTA	4716	С	GLY B 2	15		-21.155	82.605	1.00 31.02	
ATOM	4717	0 -	GLY B 2			-20.911	81.833	1.00 23.68	
ATOM	4718	N	TYR B 2		52.918	-20.564	82.493	1.00 22.45	
	4719	CA	TYR B 2			-19.605	81.426	1.00 24.03	
ATOM				16 .		-20.013	80.603	1.00 17.60	
ATOM	4720	CB				-21.291	79.806	1.00 25.96	
MOTA	4721	CG		16		-22.538	80.435	1.00 21.41	
MOTA	4722	CD1					-	1.00 23.78	
MOTA	4723	CE1		16		-23.704	79.729		
MOTA	4724	CD2		16		-21.242	78.439	1.00 19.62	
ATOM	4725	CE2	TYR B 2			-22.402	77.72-2	1.00 26.39	
ATOM	4726	CZ	TYR B 2	16 .	52.277	-23.630	78.379	1.00 29.35	
ATOM	4727-	ОН	TYR B 2	16	52.577	-24.782	77.690	1.00 27.75	
ATOM	4728	С	TYR B 2		52.575	-18.153	81.884	1.00 24.53	
	4729	ō	TYR B 2		52.065	-17.298	81.159	1.00 18.99	
ATOM	4730	N	ASN B 2			-17.886	83.098	1.00 21.41	
MOTA			ASN B 2			-16.534	83.642	1.00 21.23	
ATOM	4731	CA				-16.325	84.669	1.00 16.78	
MOTA	4732	CB	ASN B 2				85.162	1.00 22.07	
MOTA	4733	CG	ASN B 2			-14.889		1.00 23.13	
MOTA	4734	QD1				-14.521	86.163		
ATOM	4735	ND2	ASN B 2			~14.058	84.435	1.00 19.26	
ATOM	4736	С	ASN B 2			-16.339	84.291	1.00 19.40	
ATOM	4737	0	ASN B 2			-17.145	85.124	1.00 19.28	
ATOM	4738	N	LEU B 2	218		-15.273	83.905	1.00 18.65	
MOTA	4739	CA	LEU B 2	218		-15.004	84.444	1.00 16.41	
ATOM	4740	CB	LEU B 2	218		-15.244	83.368	1.00 18.29	
ATOM	4741	CG	LEU B 2		58.851	-15.872	83.782	1.00 28.15)
MOTA	4742		LEU B 2		59.873	-15.563	82.695	1.00 20.50	j
	4743		LEU B 2		59.332	-15.348	85.116	1.00 22.53	į
MOTA	4744	C	LEU B 2			-13.562	84.926	1.00 17.89)
ATOM		0	LEU B 3			-12.627	84.128	1.00 14.48	
ATOM	4745		ASN B 2			-13.395	86.219	1.00 14.09)
ATOM	4746	N				-12.075	86.821	1.00 18.41	
MOTA	4747	CA	ASN B 2			-11.922	88.111	1.00 14.64	
MOTA	4748	CB	ASN B 2			-11.898	87.868	1.00 27.12	
ATOM	4749	CG	ASN B				86.880	1.00 20.21	
ATOM	4750	OD1				-11.332	88.787	1.00 23.62	
ATOM	4751	ND2			53.982	-12.480	-	1.00 20.39	
ATOM	4752	С	ASN B 2			-11.843	87.172		
ATOM	4753	. 0	ASN B	219	59.115		87.841	1.00 20.41	
ATOM	4754	N	ILE B	220		-10.717	86.729	1.00 15.13	
MOTA	4755	CA	ILE B	22C		-10.394	87.033	1.00 17.16	
ATOM	4756	CB	ILE B	22(-10.083	85.740	1.00 20.78	
ATOM	4757	CG2			62.736	-9.821	86.094	1.00 18.08	
ATOM	4758	CG1			61.138	-11.250	84.748	1.00 17.62	
ATOM	4759	CD1			61.646	-12.590	85.273	1.00 20.72	
	4760	C	ILE B		60.475	-9.161	87.947	1.00 21.17	7
MOTA	4761	ō	ILE B		60.565		87.470	1.00 16.03	3
ATOM			PRO B		60.367		89.274	1.00 21.74	
ATOM	4762	N			60.135			1.00 22.96	
ATOM	4763	CD	PRO B		60.394		90.213	1.00 19.10	
MOTA	4764	CA	PRO B				91.523	1.00 19.40	
ATOM	4765	СВ	PRO B		59.947	-8.869	91.407	1.00 23.0	2
ATOM	4766	CG	PRO B		60.564			1.00 23.0	2
MOTA	4767	С	PRO B		61.799		90.289	1.00 22.4	1
ATOM	4768	0	PRO B		62.780		90.425	1.00 20.7	٠ ۲
MCTA	4769	N	LEU B		61.899		90.202	1.00 22.7	4
ATOM	4770	CA	LEU B	222	63.198		90.223	1.00 21.1	0
atom	4771	CB	LEU B		63.453		88.850	1.00 17.2	
ATCM	4772	CG	LEU B		63.467		87.721	1.00 20.2	0
ATOM	4773		LEU B		63.453		86.361	1.00 20.0	Ü
	4774	CD2	LEU B	222	64.696	-6.908	87.881	1.00 21.9	3
ATCM	4775	c	LEU B	222	63.335		91.353	1.00 20.0	4
ATOM	4,,3	-					-		

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ATOM	4776	0	LEU B		62.350	-4.030	91.806	1.00 17.58	
ATOM	4777	N	PRO B		64.571	-4.394	91.830	1.00 19.48	
ATOM	4778	CD	PRO B	223	65.806	-5.072	91.400	1.00 16.80	
ATOM	4779	CA	PRO B	223	64.873	-3.454	92.915	1.00 20.38	
ATOM	4780	CB	PRO B	223	66.274	-3.881	93.327	1.00 26.11	
ATOM	4781	CG	PRO B		66.884	-4.161	91.973	1.00 19.74	
ATOM	4782	c	PRO B		64.818	-1.971	92.553	1.00 21.39	
									•
MOTA	4783	С	PRO B		64.815	-1.598	91.380	1.00 17.16	
MOTA	4784	Ŋ	LYS B		64.798	-1.142	93.589	1.00 20.65	
MOTA	4785	CA.	LYS B		64.755	0.311	93.462	1.00 27.00	
ATOM	4786	CB	LYS B		64.577	0.938	94.844	1.00 36:47	
ATOM	4787	CG	LYS .B	224	63.415	0.389	95.651	1.00 37.72	
ATOM	4788	CD	LYS B	224	63.541	0.833	97.101	1.00 42.06	
ATOM	4789	CE	LYS B		62.420	0.276	97.955	1.00 45.18	
ATOM	4790	NZ	LYS B		62.645	0.570	99.399	1.00 46.30	
MOTA	4791	C	LYS B		66.071	0.808	92.874	1.00 27.01	
	4792	0	LYS B		67.098	0.139	92.995	1.00 27.01	
ATOM									
ATOM	4793	N	GLY B		66.038	1.989	92.259	1.00 22.66	
ATOM	4794	CA	GLY B		67.239	2.565	91.669	1.00 25.67	
MOTA	4795	Ċ	GLY B		67.768	1.809	90.459	1.00 24.95	
ATOM	4796	Ō	GLY B		68.917	1.975	90.069	1.00 26.83	
ATOM	4797	N	LEU B	226	66.926	0.980	89.855	1.00 21.79	
ATOM	4798	CA	LEU B	226	67.319	0.180	88.692	1.00 22.31	
ATOM	4799	CB	LEU B	226	66.067	-0.473	88.099	1.00 23.29	
MOTA	4800	CG	LEU B		66.238	-1.605		1.00 26.71	
ATOM	4801		LEU B		66.846	-2.804	87.813	1.00 26.44	
ATOM	4802		LEU B		64.877	-1.997		1.00 22.96	
	4803	C	LEU B		68.008	1.017	87.603	1.00 22.56	
ATOM			LEU B		67.517				
ATOM	4804	0				2.087		1.00 20.19	
MOTA	4805	N	ASN B		69.134	0.549	87.060	1.00 15.52	
MOTA	4806	CA	ASN B		69.794	1.317	85.998	1.00 19.49	
ATOM	4807	CB	ASN B		71.304	1.474	86.270	1.00 20.43	
ATOM	4808	CG	ASN B		72.062	0.161	86.206	1.00 28.97	
ATOM	4809	OD1	ASN B	227	72.015	-0.546	85.199	1.00 24.30	
MOTA	4810	ND2	ASN B	227	72.786	-0.160	87.276	1.00 20.88	
ATOM	4811	С	ASN B	227	69.548	0.671	84.630	1.00 21.26	
ATOM	4812	0	ASN B	227	69.004	-0.432	84.555	1.00 18.90	
ATOM	4813	N	ASP B		69.949	1.347	83.552	1.00 20.98	
ATOM	4814	CA	ASP B		69.720	0.817	82.208	1.00 22.51	
ATOM	4815	CB	ASP B		70.270	1.753	31.126	1.00 23.46	
ATOM	4816	CG	ASP 3		69.596	3.113	81.119	1.00 26.12	
ATOM	4817		ASP B		68.387	3.193	81.415	1.00 26.75	
	4818		ASP B		70.276	4.101	80.773	1.00 30.22	
ATOM			ASP B			-0.573	81.952	1.00 23.49	
ATOM	4819	Č						1.00 23.49	
ATOM	4820	0	ASP B			-1.390	81.288		
ATCM	4821	N	ASN B		71.484	-0.836	82.453	1.00 22.24	
atom	4822	CA	ASN B		72.111	-2.135	82.250	1.00 23.30	
ATCM	4823	CB	ASN B		73.562	-2.101	82.737	1.00 20.99	
ATCM	4824	CG	ASN 3		74.441	-1.237	81.859	1.00 25.71	
ATOM	4825		ASN B		74.644	-1.538	80.678	1.00 26.40	
ATCM	4826	ND2	ASN B	229	74.955	-0.151	82.417	1.00 27.44	
ATOM	4827	C	ASN B	229	71.341	-3.252	82.943	1.00 23.74	
ATOM	∔828	0	ASN B		71.207	-4.346	82.402	1.00 20.51	
ATOM	4829	N	GLU B		70.832	-2.976	84.139	1.00 23.06	
ATOM	4830	Ċλ	GLU B		70.069	-3.977	84.874	1.00 23.01	
ATOM	4831	CB	GLU 3		69.799	-3.480	86.297	1.00 24.73	
			GLU 3		71.069	-3.201	87.087	1.00 27.28	
ATOM	4832	CG	GLU 3		70.792	-2.649	88.470	1.00 27.28	
ATOM	4833	CD			70.792			1.00 27.47	
ATCM	4834		GLU B			-1.625	88.569		
ATOM	4835		GLU 3		71.286	-3.232	89.455	1.00 26.79	
ATOM	4836	С	GLU B		68.749	-4.281	84.146	1.00 24.25	
ATCM	4837	0	GLU 3		68.347	-5.445	84.022	1.00 15.89	
ATOM	:838	N	PHE B		68.391	-3.242	83.637	1.00 21.46	
ATOM	4839	CA	PHE B		66.814	-3.429	82.933	1.00 22.84	
ATOM	4840	CB	PHE B	231	66.210	-2.079	82.529	1.00 23.96	
ATOM	4841	CG	PHE B		64.803	-2.182	81.975	1.00 26.13	•
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-2.514 82.805 -1.956 80.627 4842 CD1 PHE B 231 63.738 1.00 25.00 MOTA 1.00 22.93 64.550 4843 CD2 PHE B 231 MOTA 62.440 -2.618 82.304 1.00 25.03 CE1 PHE B 231 4844 MOTA CE2 PHE B 231 63.250 -2.059 80.114 1.00 27.46 4845 ATOM PHE B 231 62.196 -2.390 80.957 1.00 20.25 4846 CZ MOTA 81.677 1.00 23.14 81.464 1.00 20.02 66.978 -4.288 PHE B 231 ATOM 4847 С -5.239 PHE B 231 66.221 4848 0 MOTA 1.00 22.02 1.00 19.97 67.963 -3.952 80.845 **LEU B 232** 4849 N ATOM -4.697 **LEU B 232** 68.200 79.614 4850 CA ATOM 1.00 24.99 78.734 4851 CB LEU B 232 69.192 -3.942 ATOM 1.00 29.73 -2.581 78.263 68.665 **LEU B 232** MOTA 4852 CG 1.00 28.11 CD1 LEU B 232 69.746 -1.856 77.454 4853 MOTA 67.409 -2.784 77.414 1.00 26.54 CD2 LEU B 232 4854 MOTA 1.00 19.25 79.898 LEU B 232 68.688 -6.119 4855 С MOTA 1.00 19.49 1.00 20.50 1.00 20.70 -7.051 79.162 68.365 4856 0 LEU B 232 MOTA 80.962 PHE B 233 69.468 -6.280 4857 N MOTA PHE B 233 69.950 -7.599 81.378 4858 CA MOTA -7.471 1.00 23.75 PHE B 233 PHE B 233 82.632 70.825 4859 CB ATOM -8.790 83.239 1.00 28.58 71.217 4860 CG ATOM 1.00 30.48 CD1 PHE B 233 82.731 72.285 -9.519 MOTA 4861 70.481 84.294 1.00 25.32 -9.328 CD2 PHE B 233 4862 ATOM 72.617 -10.762 70.803 -10.573 71.871 -11.292 CE1 PHE B 233 83.262 1.00 31.87 4863 MOTA 1.00 31.26 CE2 PHE B 233 84.832 4864 ATOM 84.317 1.00 32.29 PHE B 233 4865 CZ ATOM 81.727 68.712 1.00 20.23 -8.439 PHE B 233 4866 С MOTA 81.270 1.00 21.56 68.553 -9.567 PHE B 233 MOTA 4867 0 -7.878 82.560 1.00 21.26 ALA B 234 67.842 4868 N ATOM -8.576 82.963 1.00 19.60 66.626 MOTA 4869 CAALA B 234 1.00 19.25 -7.733 83.950 4870 65.835 CB ALA B 234 MOTA 65.772 -8.898 1.00 18.87 81.749 4871 С ALA B 234 ATOM ALA B 234 65.253 -10.010 81.624 1.00 21.91 4872 0 MOTA 80.845 1.00 20.29 -7.934 **LEU** B 235 4873 65.634 N ATOM 64.822 -8.141 79.652 1.00 19.53 4874 LEU B 235 MOTA CA 64.773 -6:874 78⁻.795 1.00 24.07 LEU B 235 CB MOTA 4875 78.024 1.00 27.87 63.465 -6.607 4876 **LEU B 235** ATOM CG 76.770 1.00 20.77 CD1 LEU B 235 63.783 -5.813 MOTA 4877 1.00 26.94 77.664 CD2 LEU B 235 62.761 -7.897 4878 ATOM 65.376 -9.276 78.795 1.00 20.79 LEU B 235 4879 С ATOM 64.648 -10.205 78.431 1.00 18.25 4880 LEU B 235 ATOM 0 1.00 19.33 78.462 66.665 -9.191 GLU B 236 ATOM 4881 N 77.629 1.00 27.93 67.303 -10.206 GLU B 236 GLU B 236 4882 CA MOTA 1.00 31.06 68.777 -9.853 77.384 ATOM 4883 CB 76.548 1.00 43.60 CG GLU B 236 68.969 -8.597 4884 ATOM -8.292 76.259 1.00 45.19 70.428 4885 CD GLU B 236 MOTA 1.00 48.77 70.697 -7.309 75.538 OE1 GLU B 236 4886 MOTA 1.00 52.72 -9.032 76.751 71.300 4887 OE2 GLU B 236 MOTA 67.20. -11.607 78.209 1.00 24.89 **GLU B 236** 4888 С ATOM 1.00 22.06 66.865 -12.552 77.501 GLU B 236 4889 0 ATOM 79.492 1.00 24.20 67.520 -11.748 LYS B 237 4890 N ATCM 1.00 27.10 1.00 23.43 67.449 -13.058 80.130 LYS B 237 4891 CA ATOM 67.989 -12.984 69.466 -12.641 70.305 -13.683 81.562 LYS B 237 4892 CB ATOM 1.00 29.46 81.650 LYS B 237 4893 CG ATOM 1.00 31.65 80.924 LYS B 237 4894 CD ATOM 1.00 39.70 71.782 -13.356 80.993 LYS B 237 MOTA 4895 CE 1.00 46.74 72.580 -14.363 LYS B 237 80.242 4896 NZ ATOM 66.019 -13.615 1.00 30.92 80.143 4897 С LYS B 237 ATOM 1.00 31.42 65.789 -14.766 79.763 LYS B 237 ATOM 4898 0 65.057 -12.806 63.677 -13.280 1.00 25.86 80.573 **SER B 238** 1899 N MOTA 1.00 27.98 **SER B 238** 80.620 4900 CA MOTA 1.00 23.89 62.776 -12.241 81.289 **SER B 238** 1901 CB ATOM 1.00 29.27 1.00 28.32 80.565 62.756 -11.028 **SER B 238** 4902 OG ATCM 79.229 SER B 238 63.145 -13.642 ATOM 4903 С 1.00 29.65 62.387 -14.605 79.089 **SER B 238** 4904 0 MOTA 1.00 27.39 63.536 -12.886 /8.403 1.00 -63.079 -13.192 76.846 1.00 32.52 63.544 -12.129 75.837 1.00 30.53 LEU B 239 4905 N MOTA LEU B 239 CA 4906 ATCM CB LEU B 239 4907 ATCM

MOTA	4908	CG	LEU I	3 239	62.833	-10.772	75.895	1.00 36.06
ATOM	4909		LEU		63.404		74.842	1.00 29.64
ATOM	4910		LEU			-10.976	75.667	1.00 30.73
	4911	C	LEU I			-14.563	76.430	1.00 34.15
MOTA			LEU			-15.340	75.803	1.00 33.23
ATOM	4912	0				-14.859	76.788	1.00 33.23
MOTA	4913	N	GLU I					
MOTA	4914	CA	GLU I			-16.152	76.472	1.00 33.79
ATOM	4915	CB	GLU 1			-16.238	77.011	1.00 38.51
ATOM	4916	CG	GLU I	3.240		-15.407	76.275	1.00 40.56
ATOM	4917	CD	GLU 1	3 240	69.256	-15.532	76.903	1.00 48.20
ATOM	4918	CE1	GLU 1	240	69.685	-16.679	77.161	1.00 45.36
MOTA	4919	CE2	GLU 1	3 240	69.912	-14.492	77.130	1.00 48.21
ATOM	4920	C	GLU I	3 240	64.604	-17.258	77.108	1.00 33.23
ATOM	4921	ō	GLU I		64.391	-18.310	76.510	1.00 32.15
ATOM	4922	N		3 241	64.146	-17.017	78.331	1,00 29.72
ATOM	4923	CA	ILE			-17.989	79.047	1.00 29.85
ATOM	4924	CB	ILE			-17.489	80.466	1.00 30.42
	4925	CG2	ILE			-18.456	81.162	1.00 29.88
ATOM			ILE !			-17.311	81.254	1.00 29.77
ATOM	4926	CG1	ILE			-16.760	82.654	1.00 32.92
ATOM	4927					-18.247	78.298	1.00 34.65
ATOM	4928	C		3 241				
MOTA	4929	C		3 241		-19.396	78.149	
MOTA	4930	N	VAL			-17.178	77.823	1.00 31.16
MOTA	4931	CA	VAL			-17.312	77.105	1.00 34.55
MOTA	4932	CЗ	VAL 3			-15.937	76.825	1.00 30.77
ATOM	4933		VAL :			-16.113	76.038	1.00 32.18
MOTA	4934	CG2	VAL I			-15.214	78.140	1.00 31.57
ATOM	4935	Ç	VAL	3 242	60.320	-18.042	75.787	1.00 36.56
ATOM	4936	0	VAL			-18.959	75.453	1.00 33.93
MOTA	4937	N	LYS I	3 243		-17.627	75.042	1.00 38.64
ATOM	4938	CA	LYS	3 243	61.659	-18.241	73.760	1.00 44.36
ATOM	4939	CB	LYS 1	3 243	62.966	-17.659	73.214	1.00 48.33
MOTA	4940	CG	LYS !	3 243	62.810	-16.399	72.386	1.00 53.88
MOTA	4941	CD		3 243	62.185	-16.718	71.036	1.00 53.72
ATOM	4942	CE		3 243	63.056	-17.681	70.242	1.00 54.69
MOTA	4943	NZ		3 243	62.456	-18.025	68.923	1.00 57.75
MOTA	4944	c		3 243		-19.755	73.824	1.00 43.21
· ATOM	4945	ō	LYS			-20.455	72.884	1.00 42.92
ATOM	4946	:1	GLU I			-20.257	74.935	1.00 45.77
ATOM	4947	 CA	GLU			-21.687	75.085	1.00 47.72
ATOM	4948	CB	GLU I			-21.925	76.075	1.00 50.89
		CG	GLU I			-23.378	76.208	1.00 57.16
ATOM	4949	CD	GLU I			-23.564	77.173	1.00 57.74
ATOM	4950					-22.967	76.942	1.00 60.18
MOTA	4951	OE1 OE2	GLU			-24.308	78.160	1.00 61.59
MOTA	4952					-22.507	75.505	1.00 47.78
MOTA			GLU I	244			75.544	1.00 51.39
ATOM	4954	0		3 244		-23.736 -21.851	75.805	1.00 43.31
ATOM	4955	N		3 245				1.00 43.55
ATOM	4956	CA		3 245		-22.589	76.230	1.00 45.89
MOTA	4957	CB		3 245		-22.514	77.771	
MOTA	4958		VAL			-23.322	78.231	1.00 49.90
MOTA	4959		VAL			-23.040	78.435	1.00 46.37
ATOM	4960	C		3 245		-22.115	75.565	1.00 41.01
MOTA	4961	0		3 245		-22.676	75.798	1.00 39.36
ATOM	4962	11		3 246		-21.101	74.716	1.00 34.37
MOTA	4963	CA	PHE !	3 246	56.610	-20.602	74.077	1.00 34.36
ATOM	4964	23	PHE I	3 246		-19.517	74.958	1.00 30.80
ATOM	4965	CG		3 246	54.542	-19.230	74.644	1.00 32.57
MOTA	4966		PHE			-20.142	74.989	1.00 27.72
ATOM	4967	CD2	PHE	3 246	54.174	-18.048	74.003	1.00 28.20
ATOM	1968	CEI		3 246		-19.878	74.704	1.00 26.71
ATOM	1969	CE2		3 246		-17.773	73.713	1.00 29.27
ATOM	4970	CC	PHE	3 246		-18.689	74.065	1.00 26.18
ATOM	4971	c	PHE	246		-20.040	72.682	1.00 35.32
ATOM ATOM	4972	5	PHE	B 246		-19.153	72.517	1.00 31.73
ATOM	4973	::	GLU	B 247		-20.568	71.683	1.00 37.00
AICH	3010						_	

ATOM	4974	CA	GLU B	247		56.363	-20.137	70.296	1.00 40.73
MOTA	4975	CB	GLU B	247		56.518	-21.347	69.370	1.00 43.38
ATOM	4976	CG	GLU B			56.670	-22.702	70.073	1.00 51.49
	-		GLU B				-23.214	70.718	1.00 55.29
MOTA	4977	CD					-22.601		1.00 49.08
MOTA	4978		GLU E					71.691	
ATOM	4979	OE2	GLU B	247			-24.246	70.241	1.00 60.95
MOTA	4980	С	GLU E	247		55.090	-19.379	69.939	1.00 39.04
ATOM	4981	0	GLU E	247		54.129	-19.960	69.436	1.00 39.49
ATOM	4982	N	PRO E				-18.064	70.182	1.00 35.13
	4983		PRO E				-17.270	70.733	1.00 33.57
MOTA		CD					-17.188	69.916	1.00 36.03
ATOM	4984	CA	PRO E		•				
MOTA	4985	CB	PRO E				-15.878	70.562	1.00 35.33
MOTA	4986	CG	PRO E	248			-15.880	70.233	1.00 32.85
ATOM	4987	С	PRO E	248		53.563	-16.990	68.457	1.00 33.44
ATOM	4988	0	PRO E	248		54.427	-16.808	67.604	1.00 29.38
ATOM	4989	N	GLU. E			52.263	-17.012	68.182	1.00 32.23
MOTA	4990	CA	GLU E				-16.782	66.828	1.00 29.35
	4991	CB	GLU E				-17.366	66.645	1.00 31.87
ATOM							-18.867	66.787	1.00 28.64
ATOM	4992	CG	GLU E						1.00 23.34
MOTA	4993	CD	GLU E				-19.338	66.747	
ATOM	4994	OE1	GLU E				-18.917	67.630	1.00 26.38
MOTA	4995	OE2	GLU E	249			-20.115	65.835	1.00 37.71
MOTA	4996	С	GLU E	249		51.700	-15.273	66.650	1.00 28.25
ATOM	4997	0	GLU E	249		51.776	-14.765	65.537	1.00 21.47
ATOM	4998	N	VAL E			51.561	-14.564	67.768	1.00 21.77
	4999	CA	VAL E				-13.110	67.756	1.00 21.41
ATOM				_			-12.676	67.357	1.00 26.42
MOTA	5000	СВ	VAL E				-13.196	68.378	1.00 20.96
ATOM	5001		VAL E						
MOTA	5002		VAL E				-11.166	67.243	1.00 24.68
ATOM-	5003	С	VAL E				-12.608	69.168	1.00 22.88
ATOM	5004	0	VAL E	250			-13.354	70.133	1.00 18.00
ATOM	5005	N	TYR I	251		52.201	-11.359	69.295	1.00 20.28
ATOM	5006	CA	TYR E			52.481	-10.823	70.620	1.00 22.33
MOTA	5007	СВ	TYR E	_		53.956	-11.043	70.999	1.00 20.67
	5008	ÇG	TYR I				-10.045	70.427	1.00 21.89
MOTA			TYR I			55.198	-8.834	71.072	1.00 19.31
MOTA	5009	CD1				56.129	-7.922	70.562	1.00 23.73
MOTA	5010	CE1							1.00 18.72
ATOM	5011	CD2	TYR I			55.651		69.254	
MOTA	5012	CE2	TYR I			56.580	-9.417	68.734	1.00 22.71
ATOM	5013	ĊZ	TYR I			56.813	-8.220	69.390	1.00 27.33
ATOM	5014	OH	TYR I			57.705	-7.308	68.865	1.00 23.18
ATOM	5015	С	TYR I	3 251		52.134	-9.349	70.732	1.00 25.71
MOTA	5016	Ō	TYR I			52.095	-8.622	69.728	1.00 20.14
ATOM	5017.	N	LEU I			51.834	-8.930	71.958	1.00 21.13
	5018	CA	LEU I			51.533	-7.532	72.252	1.00 24.61
ATOM			LEU I			50.154	-7.373	73.897	
MOTA	5019	CB	LEU	224		48.915	-7.435	1.996	1.00 23.73
MOTA	5020	CG	LEU 1			48.779		·:.360	1.00 23.18
ATOM	5021	CD1	LEU I	3 252					1.00 29.06
ATOM	5022	CD2	LEU I	3 252		47.697		72.833	
ATOM	5023	С	LEU I			52.610	-7.044	73.217	1.00 24.77
MOTA	5024	0	LEU I	3 252		53.064	-7.797	74.076	
ATOM	5025	N	LEU I	3 253		53.011	-5.786	73.071	1.00 20.14
ATOM	5026	CA	LEU I			54.057	-5.209	73.911	1.00 20.33
	5027	CB	LEU			55.304	-4.946		
ATOM						56.490		73.688	1.00 18.34
MOTA	5028	CG	LEU 1			57.062		74.829	1.00 14.11
ATOM	5029	CD1							1.00 19.60
ATOM	5030		LEU !	3 253		57.552		72.624	
ATOM	5031	С	LEU I			53.550		74.536	1.00 20 54
ATOM	5032	<u>ي</u>	LEU I	3 253		53.200		73.821	1.00 22.80
ATOM	5033	N	GLN I	3 254		53.495	-3.858	75.865	1.00 20.37
ATOM	5034	CA		3 254		53.000	-2.654	76.539	1.00 21.77
	5035	СВ		3 254	•	52.129		77. 7 55	1.00 17.85
ATOM				3 254		52.724		79.124	1.00 32.51
ATOM	5036	CG				52.563		79.609	1.00 28.19
ATOM	5037	CD		B 254		51.507		80.124	1.00 26.96
ATCM	5038		GLN						1.00 16.80
ATOM	5039	NE2	GLN :	8 254		53.603	-0.619	79.432	1.00 10.00

ATOM	5040	С	GLN B	254		54.211	-1.793	76.887	1.00 20.15
	5041	Ō	GLN B			55.186	-2.254	77.497	
MOTA			_						
MOTA	5042	N	LEU B			54.146	-0.532	76.468	1.00 19.46
MOTA	5043	CA	LEU B	255		55.268	0.386	76.614	1.00 15.99
						55.692			
ATOM	5044	CB	LEU B				0.831	75.211	1.00 18.15
MCTA	5045	CG	LEU B	255		56.143	-0.316	74.296	1.00 21.80
MCTA	5046	CD1	LEU B	255		56.215	0.159	72.850	1.00 16.70
ATOM	5047	CD2	LEU B			57.501	-0.843	74.771	1.00 13.76
ATOM	5048	C	LEU B	255		55.083	1.614	77.492	1.00 21.41
ATCM	5049		LEU B	255		55.379	2.741	77.065	1.00 18.40
ATOM	5050	N	GLY B			54.618	1.408	78.718	1.00 16.80
ATOM	5051	CA	GLY B	256		54.456	2.519	79.634	1.00 19.90
•	5052	С	GLY B			55.816	3.181	79.818	1.00 17.68
ATOM									
ATOM	5053	0	GLY B			56.854	2.514	79.841	1.00 13.96
MOTA	5054	N	THR B	257		55.824	4.497	79.936	1.00 19.55
ATOM	5055	CA	THR B			57.081	5.205	80.098	1.00 19.47
ATOM	5056	CB	THR B			57.044	6.547	79.340	1.00 21.49
MOTA	5 057	OG1	THR B	257		55.989	7.365	79.858	1.00 17.43
ATOM	5058	CG2	THR B			56.780	6.311	77.850	1.00 22.49
ATOM	5059	C	THR B			57.440	5.466	81.564	1.00 20.75
ATOM	5060	0	THR B	257		58.480	5.054	81.843	1.00 25.01
ATOM	5061	N	ASP B			56.618	5.004	82.504	1.00 17.23
ATOM	5062	CA	ASP B			56.929	5.277	83.906	1.00 17.42
ATOM	5063	CB	ASP B	258		55.744	4.940	84.846	1.00 12.75
ATOM	5064	CG	ASP B	258		55.197	3.524	84.676	1.00 21.60
			ASP B			58.245	4.718	84.460	1.00 16.09
ATOM	5065	С							
ATOM	5066	0	ASP B	258		58.667	5.116	85.542	1.00 22.07
ATOM	5067	ODI	ASP B	258		55.901	2.642	84.150	1.00 17.74
			ASP B			54.041	3.281	85.109	1.00 18.68
ATOM	5068	OD2							
ATOM	5069	N	PRO B	259		58.879	3.746	83.779	1.00 20.98
MOTA	5070	CD	PRO B	259		58.474	2.901	82.641	1.00 17.75
ATOM	5071	CA	PRO B			60.154	3.257	84.321	1.00 22.63
ATOM	5072	CB	PRO B			60.395	1.988	83.506	1.00 23.46
ATOM	5073	CG	PRO B	259		59.800	2:343	82.199	1.00 27.08
ATOM	5074	C	PRO B			61.305	4.284	84.172	1.00 23.86
MOTA	5075	0	PRO B			62.406	4.082	84.698	1.00 24.24
ATOM	5076	N	LEU B	260		61.054	5.387	83.465	1.00 20.49
ATOM	5077	CA	LEU B	260		62.080	6.417	83.262	1.00 15.17
				260		61.626	7.408	82.185	1.00 17.03
ATOM	5078	CB	LEU B						
MOTA	5079	CG	LEU B	260		61.431	6.881	80.760	1.00 16.02
ATOM	5080	CD1	LEU B	260		60.703	7.915	79.901	1.00 17.03
ATOM	5081	CD2	LEU B			62.803	6.546	80.163	1.00 18.58
atom	5082	С	LEU B			62.449	7.194	84.541	1.00 22.45
ATOM	5083	0	LEU B	260		61.611	7.440	85.412	1.00 17.84
MOTA	5084	N	LEU B	261	•	63.713	7.588	84.635	1.00 22.90
			_			64.219	8.332	85.782	1.00 26.34
ATOM	3085	CA	LEU B						
ATOM	3086	CB	LEU B			65.605	8.914	85.473	1.00 20.58
ATOM	3087	CG	LEU B	261		66.180	9.850	86.553	1.00 28.44
MCTA	5088		LEU B			66.481	9.055	87.812	1.00 29.84
ATOM	5089		LEU B			67.462	10.522	86.057	1.00 32.10
ATOM	5090	C	LEU B	261		63.315	9.475	86.227	1.00 27.61
ATOM	5091	0	LEU B			62.978	9.586	87.408	1.00 24.02
ATOM	5092	11	GLU B			62.934	10.315	85.269	1.00 23.33
ATOM	5093	CA	GLU B	262		62.126	11.490	85.530	1.00 23.38
ATOM	5094	CB	GLU B			62.115	12.415	84.302	1.00 23.17
								83.806	1.00 28.98
ATOM	5095	CG	GLU B			63.503	12.854		
ATOM	5096	CD	GLU B			64.179	11.831	82.902	1.00 32.26
ATOM	5097	CEI				63.702	10.673	82.838	1.00 29.28
						65.201	12.186	82.264	1.00 25.42
ATOM	5098	OE2							
ATOM	5099	С	GLU B			60.693	11.249	85.976	1.00 23.25
ATOM	5100	0	GLU B	262		60.013	12.192	86.368	1.00 27.63
ATOM	5101	N	ASP B			60.219	10.011	85 927	1.00 22.25
									1.00 24.46
ATOM	5102	CA	ASP B			58.840	9.751	86.345	
ATOM	5103	CB	ASP B	263		58.214	8.659	85.465	1.00 20.94
ATOM	5104	CG	ASP B	263		56.710	8.543	85.659	1.00 25.30
			ASP B			55.995	8.318	84.656	1.00 21.82
ATOM	5105	ODI	var a	203		33.333	0.510	04.000	21.02

MOTA	5106	0D2	ASP B	263	9	56.239	8.666	86.811	1.00 18.31
						58.834	9.339	87.814	1.00 26.39
ATOM	5107	С	ASP B						
ATOM	5108	0	ASP B	263		59.437	8.335	88.179	1.00 22.11
ATOM	5109	N	TYR B	264	9	58.155	10.124	88.648	1.00 25.81
						58.101	9.864	90.084	1.00 30.96
ATOM	5110	CA	TYR B						
ATOM	5111	CB	TYR B	264		57.511	11.055	90.841	1.00 36.80
ATOM	5112	CG	TYR B	264	,	58.241	12.356	90.645	1.00 46.58
ATOM	5113	CD1	TYR B	264		57.981	13.166	89.542	1.00 47.03
ATOM	5114.	CE1	TYR B	264	- !	58.654	14.370	89.364	1.00 50.25
	5115	CD2	TYR B			59.197	12.779	91.565	1.00 50.94
MOTA									and the second s
ATOM	5116	CE2	TYR B	264		59.876	13.977	91.396	1.00 51.28
ATOM	5117	CZ	TYR B	264		59.600	14.769	90.297	1.00 52.21
		ОН	TYR B			60.268	15.961	90.142	1.00 49.65
MOTA	5118								
MOTA	5119	С	TYR B	264		57.340	8.628	90.525	1.00 31.04
ATOM	5120	0	TYR B	264		57.514 .	8.181	91.657	1.00 24.50
	5121	N	LEU B	265		56.491	8.074	89.666	1.00 26.68
ATOM									
ATOM	5122	CA	LEU B			55.744	6.900	90.086	1.00 24.17
MOTA	5123	CB	LEU B	265		54.371	6.838	89.390	1.00 24.69
ATOM	5124	CG	LEU B	265	(53.415	7.982	89.761	1.00 26.00
						51.970	7.583	89.460	1.00 22.21
MOTA	5125		LEU B						
ATOM	5126	CD2	LEU B	265		53.530	8.281	91.238	1.00 29.31
ATOM	5127	С	LEU B	265	!	56.478	5.568	89.948	1.00 25.83
			LEU B			55.848	4.512	89.908	1.00 21.74
MOTA	5128	0							
MOTA	5129	N	SER B	266		57.808	5.618	89.867	1.00 23.30
MOTA	5130	CA	SER B	266	!	58.608	4.398	89.813	1.00 20.75
		CB	SER B			58.820	3.900	88.378	1.00 19.67
ATOM	5131								
ATOM	5132	OG	SER B			59.863	4.615	87.739	1.00 18.11
ATOM	5133	С	SER B	266		59.963	4.710	90.420	1.00 23.01
ATOM	5134	0	SER B			60.437	5.845	90.345	1.00 17.74
							3.707	91.023	1.00 24.25
ATOM	5135	N	LYS B			60.590			
ATOM	5136	CA	LYS B	267	1	61.905	3.916	91.613	1.00 23.79
ATOM	5137	CB	LYS B	267		62.027	3.153	92.929	1.00 23.71
			LYS B			60.989	3.582	93.960	1.00 27.29
MOTA	5138	CG							
MOTA	5139	CD	LYS B	267	1	61.059	5.088	94.207	1.00 30.33
MOTA	5140	CE	LYS B	267		60.067	5.535	95.273	1.00 30.90
ATOM	5141	NZ	LYS B			60.155	7.004	95.509	1.00 33.37
								90.634	1.00 26.41
ATOM	5142	С	LYS B			62.990	3.483		
ATOM	5143	0	LYS B	267		64.153	3.317	91.016	1.00 25:33
ATOM	5144	N	PHE B	268		62.595	3.288	89.375	1.00 22.18
			PHE B			63.529	2.919	88.318	1.00 22.78
ATOM	5145	CA							
atom	5146	CB	PHE B	268		62.814	2.171	87.179	1.00 20.55
MOTA	5147	CĢ	PHE B	268		62.389	0.761	87.526	1.00 19.23
ATOM	5148	CD1	PHE B	268		61.722	-0.025	86.585	1.00 20.72
						62.673	0.207	88.773	1.00 18.17
MOTA	5149	CD2							
MOTA	5150		PHE B		1	61.344	- 1.336	86.875	1.00 18.83
ATOM	5151	CE2	PHE B	268		62.300	-1.105	89.073	1.0° 20.05
	5152	CZ	PHE B	268		61.634	-1.879	88.122	1.0' 19.70
ATOM							4.222	87.785	1.00 23.66
ATOM	5153	С	PHE B			64.114			
ATOM	5154	0	PHE B	268	1	63.412	5.232	87.692	1.00 19.40
ATOM	5155	N	ASN B	269		65.396	4.203	87.437	1.00 21.96
			-			66.060	5.396	86.926	1.00 25.04
ATOM	5156	CA	ASN B						
ATOM	5157	CB	ASN B			67.243	5.783	87.824	1.00 25.68
ATOM	5158	CG	ASN B	269		66.845	5.946	89.273	1.00 27.04
			ASN B			65.832	6.557	89.579	1.00 28.81
ATOM	5159								1.00 31.12
ATOM	5160	ND2	ASN B			67.659	5.419	90.176	
MOTA	5161	С	ASN B	269		66.579	5.151	85.523	1.00 25.87
ATOM	5162	Ō	ASN B			67.769	5.336	85.268	1.00 24.58
							4.757	84.611	1.00 21.37
atom	5163	N	LEU B			65.695			
MOTA	5164	CA	LEU B	270		66.116	4.462	83.241	1.00 16.35
ATOM	5165	CB	LEU B			65.176	3.426	82.610	1.00 24.12
			LEU B			64.909	2.144	83.412	1.00 27.89
ATOM	5166	CG							1.00 23.01
ATOM	5167		LEU B			64.181	1.136	82.515	1.00 23.01
ATOM	5168	CD2	LEU B	270		66.221	1.547	83.904	1.00 23.92
ATOM	5169	c	LEU B			66.184	5.682	82.337	1.00 20.06
						65.654	6.761	82.663	1.00 16.34
MOTA	5170	0	LEU B						1.00 10.07
ATOM	5171	N	SER E	271		66.839	5.497	81.193	1.00 20.07

					•			
ATOM	5172	CA	SER	B 27	66.98	9 6.546	80.200	1 00 21 20 -
								1.00 21.20
ATOM	5173	CB		B 27			79.714	1.00 21.30
ATOM	5174	OG		B 27		2 5.485	78.921	1.00 21.47
ATOM	5175	С	SER	B 27	66.10	6 6.228	79.000	1.00 22.83
ATOM	5176	0	SER	B 27	65.63	1 5.102	78.854	1.00 16.12
ATOM	5177	11		B 27			78.154	
								1.00 20.84
ATOM	5178	CA		B 272			76.906	1.00 27.82
ATOM	5179	CB		B 27			76.123	1.00 30.30
ATOM	5180	CG	ASN	B 272	64.19	8 9.456	76.475	1.00 37.83
MOTA	5181	OD1	ASN	B 272	64.16	7 10.575	75.946	1.00 37.72
MOTA	5182	ND2		B 272			77.360	1.00 41.69
ATOM	5183	C		B 273				
							75.974	1.00 26.88
ATOM	5184	0		B 272			75.412	1.00 23.12
MOTA	5185	N	VAL	B 273	67.01	2 6.160	75.774	1.00 20.40
MOTA	5186	CA	VAL	B 273	67.74	5 5.260	74.899	1.00 27.34
ATOM	5187	CB	VAL	B 273	69.22	5 5.705	74.805	1.00 30.40
ATOM	5188	CG1		B 273			74.029	1.00 34.98
ATOM	5189			B 273			74.115	1.00 33.57
	5190							
ATOM		C		B 273			75.343	1.00 24.23
ATOM	5191	0		B 273			74.513	1.00 24.19
MOTA	5192	N		B 274			76.648	1.00 20.96
ATOM	5193	CA	ALA	B 274	67.589	2.220	77.151	1.00 18.12
ATOM	5194	CB	ALA	B 274	67.85		78.646	1.00 19.09
ATOM	5195	С	ALA		66.17		76.863	1.00 18.23
ATOM	5196	ō	ALA		65.96			
							76.525	1.00 20.77
ATOM	5197	N		B 275	65.20		77.003	1.00 18.50
ATOM	5198	CA	PHE		63.80		76.761	1.00 21.25
ATOM	5199	CB	PHE	B 275	. 62.943	3.546	77.037	1.00 22,24
ATOM	5200	CG	PHE	B 275	61.46	3.303	76.921	1.00 24.72
ATOM	5201	CD1	PHE	B 275	60.819		77.826	1.00 23.64
ATOM	5202			B 275	60.732		75.907	1.00 27.31
ATOM	5203		PHE		59.450			
							77.722	1.00 27.82
ATOM	5204		PHE		59.36		75.795	1.00 27.62
ATOM	5205	CZ	PHE		58.727	7 2.851	76.701	1.00 25.78
MOTA	5206	С	PHE	B 275	63.642	1.860	75.305	1.00 24.47
ATOM	5207	0	PHE	B 275	63.045	0.821	75.030	1.00 22.68
ATOM	5208	N	LEU		64.183		74.378	1.00 23.85
ATOM	5209	CA	LEU		64.128		72.946	1.00 21.28
ATOM	5210	CB	LEU					
					64.814		72.134	1.00 19.87
MOTA	5211	CG	LEU		65.114		70.662	1.00 24.94
MOTA	5212			B 276	63.818		69.936	1.00 24.81
MOTA	5213	CD2	LEU	B 276	65.840	4.312	70.018	1.00 21.01
MOTA	5214	С	LEU	B 276	64.841	1.021	72.653	1.00 22.33
MOTA	5215	0	LEU	B 276	64.348		71.886	1.00 20.73
ATOM	5216	N		B 277	66.011		73.261	1.00 20.72
ATOM	5217	CA		3 277	66.823			
								1.00 24.36
ATOM	5218	CB		B 277	68.086		73.938	1.00 27.37
MOTA	5219	CG		3 277	69.303		73.381	1.00 35.58
ATOM	5220	CD	LYS	B 277	69.061	-2.456	73.188	1.00 43.87
ATOM	5221	CE	LYS	B 277	70.283	-3.137	72.580	1.00 44.87
MOTA	5222	NZ		B 277	70.616		71.230.	1.00 49.66
ATOM	5223	C		B 277	66.000		73.482	
								1.00 24.22
MOTA	5224	0		B 277	65.987		72.777	1.00 19.90
MOTA	5225	IJ		3 278	65.319		74.624	1.00 22.32
ATOM	5226	CA		B 278	64.476	-2.544	75.114	1.00 21.71
MOTA	5227	CB	ALA	B 278	63.752	-2.117	76.381	1.00 17.34
MOTA	5228	c		в 278	63.459		74.031	1.00 22.68
ATCM	5229	Ö		B 278	63.231		73.723	1.00 19.27
				B 279				
ATOM	5230	N			62.849		73.464	1.00 24.79
ATOM	5231	CA		B 279	61.860		72.398	1.00 22.74
ATOM	5232	CB		B 279	61.395		71.955	1.00 22.46
ATOM	5233	CG	PHE	B 279	60.467	-0.640	70.778	1.00 22.62
MOTA	5234	CD1		B 279	59.196		70.882	1.00 21.74
ATOM	5235			B 279	60.862		69.567	1.00 26.07
ATOM	5236			B 279	58.325		69.799	1.00 27.02
				B 279	•			
ATOM	5237	CEZ	FAL	D 219	60.001	-0.051	68.476	1.00 25.57

				000	E0 727	-0.594	68.592	1.00 25.13
ATOM	5238	CZ	PHE B		58.727			
MOTA	5239	С	PHE B	279	62.472	-2.768	71.212	1.00 23.60
	5240	ō		279	61.866	-3.697	70.678	1.00 26.54
MOTA								1.00 21.93
MOTA	5241	N	ASN B	280	63.677	-2.376	70.804	
ATOM	5242	CA	ASN B	280	64.318	-3.046	69.680	1.00 23.70
					65.520	-2.248	69.164	1.00 22.63
MOTA	5243	CB		280				
'ATOM	5244	CG	ASN B	280	65.107	-0.937	68.505	1.00 30.83
		-			64.094	-0.878	67.796	1.00 25.81
MOTA	5245	OD1						
MOTA	5246	ND2	ASN B.	280	65.900	0.112	68.714	1.00 26.54
MOTA	5247	С	ASN B	290	64.746	-4.466	70.009	1.00 26.10
						-5.321	69.124	1.00 26.16
ATOM	5248	0	ASN B		64.775			
ATOM	5249	N	ILE B	281	65.080	-4.724	71.272	1.00 26.10
	5250	CA	ILE B		65.485	-6.067	71.667	1.00 25.81
MOTA								1.00 28.50
MOTA	5251	CB	ILE B		66.006	-5.098	73.124	
ATOM	5252	CG2	ILE B	281	66.046	-7.527	73.548	1.00 28.53
			ILE B		67.392	-5.454	73.173	1.00 32.07
ATOM	5253	CG1						
MOTA	5254	CD1	ILE B	281	68.038	-5.442	74.541	1.00 28.24
ATOM	5255	С	ILE B	281	64.320	-7.030	71.507	1.00 25.77
						-8.131	70.982	1.00 23.39
MOTA	5256	0	ILE B		64.484			
ATOM	5257	N	VAL B	282	63.139	-6.618	71.950	1.00 21.30
MOTA	5258	CA	VAL B		61.961	-7.465	71.813	1.00 22.90
								1.00 24.07
MOTA	5259	CB	VAL B		60.703	-6.775	72.387	
ATOM	5260	CG1	VAL B	282	59.464	-7.611	72.093	1.00 22.28
			VAL B		.60.865	-6.587	73.906	1.00 26.89
Mota	5261	CG2						
MOTA	5262	C.	VAL B	282	61.718	-7.795	70.339	1.00 23.87
ATOM	5263	0	VAL B	7.92	61.462	~8.949	69.978	1.00.22.65
							69.488	1.00 23.19
MOTA	5264	N	ARG B		61.799	-6.779		
ATOM	5265	CA	ARG B	283	61.576	-6.971	68.060	1.00 27.95
			ARG B	203	61.510	-5.612	67.359	1.00 25.48
MOTA	5266	CB						1.00 26.55
ATOM	5267	CG	ARG B		60.337	-4.760	67.838	
ATOM	5268	CD	ARG B	283	60.442	-3.333	67.339	1.00 31.52
					60.210	-3.208	65.908	1.00 24.43
ATOM	5269	NE	ARG B					
ATOM	5270	CZ	ARG B	283	60.915	-2.414	65.116	1.00 26.45
ATOM	5271	NH1	ARG B	283	61.902	-2.676	65.622	1.00 26.04
					60.634	-2.356	63.825	1.00 29.64
MOTA	5272	NH2						
ATOM	5273	С	ARG B	283	62.634	-7.855	67.402	1.00 32.04
	5274	Ō	ARG B		62.341	-8.552	66.431	1.00 29.76
MOTA								1.00 31.50
ATOM	5275	N	GLU B	284	63.859	-7.821	67.923	
ATOM	5276	CA	GLU B	284	64.934	-8.646	67.381	1.00 32.42
					66.289	-8.260	67.992	1.00 38.31
ATOM	5277	CB	GLU B					
ATOM	5278	CG	GLU B	284	66.798	-6.864	67.640	1.00 48.93
ATOM	5279	CD	GLU B	784	68.102	-6.518	68.362	1.00 56.28
					69.084	-7.281	68.222	1.00 57.37
MOTA	5280	OE1						
ATOM	5281	OE2	GLU B	284	68.150	-5.485	69.069	1.00 55.42
	5282	C	GLU B		64.638	-10.105	67.714	1.00 31.93
ATOM						-11.001	66.913	1.00 28.26
ATOM	5283	o	GLU B					
ATOM	5284	N	VAL B	285	64.089	-10.340	68.901	1.00 28.09
		CA	VAL B			-11.697	69.325	1.00 30.67
ATOM	5285							1.00 28.33
ATOM	5286	CB	VAL B			-11.802	70.863	
ATOM	5287	CG1	VAL B		63.257	-13.206	71.262	1.00 29.84
		221	1137 5	205		-11.470	71.478	1.00 26.93
ATOM	5288		VAL B	465				1 00 21 10
ATOM	5289	C	VAL B	285	62.460	-12.265	68.758	1.00 31.19
	5290	ŏ	VAL B			-13.423	68.349	- 1.00 31.38
ATOM								1.00 28.21
ATOM	5291	N	PHE B			-11.460	68.729	1.00 20.21
MOTA	5292	CA	PHE B	286	60.105	-11.948	68.249	1.00 25.71
			PHE B	286		-11.853	69.374	1.00 24.57
ATOM	5293	CB						1.00 26.87
ATOM	5294	CG	PHE B			-12.804	70.514	
ATOM	5295	נמס	PHE B		59.651	-12.331	71.779	1.00 25.16
				206		-14.180	70.319	1.00 22.51
ATCM	5296	CD2	PHE B	_ 50				1 00 22 22
ATOM	5297	CE1	PHE B	236		-13.213	72.833	1.00 22.92
	5298	CE2		136	59.433	-15.063	71.362	1.00 21.99
ATOM						-14.578	72.626	1.00 26.75
ATOM	5299	CZ	PHE B					1.00 20.75
ATOM	5300	С	PHE B	286	59.518	-11.318	66.993	1.00 25.90
			PHE B			-11.630	66.620	1.00 22.84
ATOM:	5301	0	rne s	200				1.00 28.27
ATOM	5302	N	GLY B	287		-10.451	66.329	1.00 20.27
ATOM	5303	CA	GLY B	287	59.756	-9.814	65.130	1.00 23.38
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Figure	18-81

ATCM	5304	С	GLY I	3 287	58	1.765	-8.719	65.498	1.00 29.17
					5.0	706		56.517	
ATCM	5305	0	GLY :			1.786	-8.216		1.00 22.88
ATCM	5306	N	GLU 7	3 288	57	.896	-8.361	64.558	1.00 26.77
								64.754	
ATOM	5307	CA	GLU I	288		. 893	-7.324		1.00 25.38
MOTA	5308	CB	GLU i	3 288	56	.405	-6.791	63.405	1.00 29.51
ATCM-	5309	CG	GLU !	3 288	5/	.430	-6.003	62.605	1.00 36.06
ATCM	5310	CD	GLU I	2 288	57	.906	-4.769	63.347	1.00 41.10
ATCM	5311	OE1	GLU I	3 288	5/	.058	-4.055	63.919	1.00 41.19
ATCM	5312	OF2	GLU I	288	59	.125	-4.503	63.348	1.00 44.69
-									
MOTA	5313	С	-GLU I	288	55	.682	-7.819	65.527	1.00 27.87
MOTA	5314	0	GLU I	3 288	5.5	.209	-8.931	65.308	1.00 26.80
MOTA	5315	N	GLY i		55	.176	-6.973	66.419	1.00 24.53
ATCM	5316	CA	GLY I	3 289	. 54	.006	-7.326	67.204	1.00 29.17
ATCM	5317	С	GLY I	3 289	53	.015	-6.171	67.244	1.00 30.46
ATOM	5318	0	GLY I	3 289	53	.005	-5.326	66.358	1.00 26.17
ATOM	5319	N	VAL I	3 290	54	.171	-6.142	68.268	1.00 23.95
ATCM	5320	CA	VAL I	3 290	51	194	-5.079	68.440	1.00 22.25
ATOM	5321	CB	VAL I	3 290		.794	-5.655	68.783	1.00 18.71
ATOM	5322	CG1	VAL I	3 290	48	.810	-4.525	69.047	1.00 22.67
						.289			
ATOM	5323	CG2	VAL 1		43	. 209	-6.504	67.629	1.00 19.26
ATCM	5324	С	VAL I	3 290	51	722	-4.232	69.593	1.00 21.55
						.960	-4.741	70.687	
ATOM	5325	0	VAL I				-4.741		1.00 21.32
ATCM	5326	N	TYR I	3 291	51	913	-2.941	69.346	1.00 21.06
						.479			
MOTA	5327	CA	TYR !				-2.063	70.357	1.00 19.29
MOTA	5328	CB	TYR I	3 291	53	.582	-1.216	69.711	1.00 20.40
						. 553	-2.072	68.918	1.00 23.09
MOTA	5329	CG	TYR I						
ATOM	5330	CD1	TYR I	3 291	54	.740	-1.875	67.549	1.00 19.52
	5331	CE1			55	.580	-2.712	66.809	1.00 20.67
ATOM									•
ATOM	5332	CD2	TYR I	3 291	55	.234	-3.122	69.527	1.00 22.88
MOTA	5333	CE2	TYR I	3 291	5.6	.070	-3.960	68.800	1.00 26.04
ATOM	5334	CZ	TYR I	3 291	56	.235	-3.752	67.442	1.00 23.44
ATOM	5335	OH	TYR I	3 291	57	.027	-4.612	66.722	1.00 28.02
ATOM	5336	С	TYR !	3 291	21	465	-1.180	71.068	1.00 26.89
ATOM	5337	0	TYR I	3 291	. 50	.668	-0.479	70.429	1.00 20.26
ATCM	5338	N	LEU !	3 292	21	522	-1.204	72.399	1.00 21.75
ATOM	5339	CA	LEU I	3 292	50	.604	-0.426	73.227	1.00 22.11
						.765			1.00 20.92
ATOM	5340	CB	LEU I				-1.369	74.088	
ATOM	5341	CG	LEU I	3 292	49	.091	-2.542	73.375	1.00 22.94
			LEU I			3.328	-3.362	74.411	1.00 21.03
MCTA	5342								
ATOM	5343	CD2	LEU I	3 292	4.8	1.149	-2.043	72.281	1.00 18.04
	5344	С	LEU I		51	330	0.557	74.147	1.00 21.59
ATOM									
ATOM	5345	၁	LEU !	3 292	52	.514	0.404	74.426	1.00 19.96
ATOM	5346	N	GLY F	2 293	5.0	.606	1.571	74.613	1.00 23.31
ATOM	5347	CA	GLY i	3 293		195	2.537	75.521	1.00 20.76
ATOM	5348	С	GLY !	3 293	51	163	1.979	76.930	1.00 26.15
				202		263	0.765	77.133	1.00 20.96
ATOM	5349	0	GLY I	223					
ATOM	5350	N	GLY I	3 294	51	017	2.859	77.914	1.00 24.63
	5351		GLY I			.980	2.407	79.293	1.00 20.00
ATCM		CA							
ATOM	5352	С	GLY I	3 294	51	176	3.538	80.285	1.00 22.59
ATOM	5353	ō	GLY !			145	4.719	79.916	1.00 17.46
ATOM	5354	N	GLY !	3 295	51	373	3.179	81.551	1.00 17.10
MCTA	5355	CA	GLY F		. 51	577	4.180	82.582	1.00 16.52
ATOM	5356	С	GLY I			.695	5.145	82.232	1.00 19.54
ATOM	5357	J	GLY :		53	.738	4.737	81.732	1.00 16.31
ATCM	5358	N	GLY !			.467	6.430	82.497	1.00 21.93
ATOM	5359	CA	GLY I		53	.448	7.465	82.207	1.00 20.05
								82.759	1.00 22.20
ATOM	5360	С	GLY !			.869	8.750		
ATOM	5361	0	GLY !	3 296	51	790	9.160	82.336	1.00 20.48
							9.402	83.682	1.00 20.93
ATOM	5362	N	TYR I			1.573			
ATOM	5363	CA	TYR I	3 297	53	.025	10.598	84.306	1.00 23.25
			TYR I			.731	10.284	85.774	1.00 19.93
ATOM	5364	CB							
ATOM	5365	CG	TYR I	3 297	52	.041	8.944	85.900	1.00 24.76
	5366	CD1				.779	7.758	85.936	1.00 21.97
ATOM									
ATOM	5367	CE1	TYR I		52	.148	6.514	85.912	1.00 19.79
	5368	CD2				.653	8.850	85.849	1.00 20.86
ATOM									1 00 10 57
ATOM	5369	CE2	TYR I	5 291	50	0.012	7.612	85.822	1.00 19.57



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ATOM	5370	CZ	TYR B	297		50.758	6.457	85.851	1.00	
MOTA	5371	он	TYR B	297		50.106	5.254	85.806	1.00	17.83
ATOM	5372	C	TYR B	297		53.839	11.877	84.181	1.00	25.22
ATOM	5373	ō	TYR B			53.451	12.925	84.705	1.00	21.77
ATOM	5374	N	HIS B			54.974	11.794	83.497	1.00	23.21
ATOM	5375	CA	HIS B			55.787	12.976	83.270	1.00	25.62
	5376	CB	HIS B			57,270	12.713	83.534	1.00	22.88
MOTA	5377	CG	HIS B	298		58.097	13.956	83.502	1.00	25.13
ATOM	5378		HIS B			58.406	14.791	82.482	1.00	28.22
MOTA	5379	NID1	HIS B	298		58.617	14.536	84.641	1.00	32.76
ATOM	5380		HIS B			59.209	15.674	84.323	1.00	26.52
ATOM	5381		HIS B			59.094	15.852	83.019	1.00	32.15
MOTA MOTA	5382	C	HIS B			55.589	13.307	81.795	1.00	25.66
	5383	ō	HIS B			56.087	12.589	80.923	1.00	25.84
ATOM ATOM	5384	N	PRO B			54.901	14.424	81.496	1.00	27.02
MOTA	5385	CD	PRO B			54.388	15.424	82.447	1.00	
ATOM	5386	CA	PRO B			54.616	14.864	80.127	1.00	
ATOM	5387	CB	PRO B	299		53.952	16.232	80.342	1.00	
ATOM	5388	CG	PRO B			54.583	16.696	81.656	1.00	
ATOM	5389	c	PRO B			55.815	14.930	79.194		27.08
ATOM	5390	ō	PRO B			55.738	14.472	78.057		28.58
ATOM	5391	N	TYR B			56.925	15.484	79.668		27.30
ATOM	5392	CA	TYR B	300		58.114	15.593	78.824		27.17
ATOM	5393	CB	TYR B	300		59.173	16.496	79.466		31.65
ATOM	5394	ĊG	TYR B	300		58.684	17.851	79.921		31.61
ATOM	5395	CD1				57.414		79.582		32.71
ATOM	5396	CE1				56.971	19.568	80.014		38.52
ATOM	5397	CD2				59.499	18.670	80.701		30.92
MOTA	5398	CE2	TYR B			59.072	19.917	91.138		32.13
MOTA	5399	CZ	TYR B			57.808	20.361	80.795		39.17
MOTA	5400	OH	TYR B	300		57.374	21.585	81.252		43.90 25.20
ATOM	5401	С	TYR B			58.731	14.218	78.572 77.445		25.15
MOTA	5402	0	TYR B			59.106	13.894	79.628		20.55
ATOM	5403	N	ALA B			58.845	13.419 12.080	79.508		22.12
MOTA	5404	CA	ALA B	301		59.414 59.417	11.388	80.874		17.09
MOTA	5405	CB	ALA B			58.608	11.360	78.505		15.20
ATOM	5406	C	ALA B			59.161	10.629	77.613		17.12
ATOM	5407	0	ALA E			57.295	11.290	78.667		18.02
MOTA	5408	N	LEU E			56.381	10.553	77.815		19.88
ATOM	5409	CA	LEU E			54.957	10.702	78.362		21.72
MOTA	5410 5411	CB CG	LEU E			53.767	10.118	77.606	1.00	31.08
MOTA MOTA	5412	CD1				52.576	9.980	78.549		31.35
ATOM	5413	CD2				53.434	11.011	76.415	1.00	27.11
ATOM	5414	c	LEU E			56.445	10.988	76.351		21.13
ATOM	5415	õ	LEU E			56.473		75.449	1.00	21.76
ATOM	5416	N	ALA E	3 3 0 3		56.472	12.293	76.115		17.69
ATOM	5417	CA	ALA E	303		56.516	12.811	74.755		17.79
ATOM	5418	CB	ALA E	3 3 0 3		56.357	14.326	74.780		24.50
ATOM	5419	С	ALA E	3 3 0 3		57.803	12.425	74.040		20.84
ATOM	5420	0	ALA E			57.781	11.968	72.891		19.33
MOTA	5421	N	ARG E			58.930	12.594	74.723	1.00	21.08 25.56
MOTA	5422	CA	ARG E			60.215	12.269	74.120	1.00	18.37
ATOM	5423	CB	ARG E			61.375	12.825	74.962	1.00	23.12
MOTA	5424	CG	ARG H	3 304		61.427	14.356 14.758	75.072 75.624		29.00
ATOM	5425	CD	ARG I	3 304		62.797				33.28
ATOM	5426	NE	ARG E			63.073	13.938 13.689	76.789 77.283	1 00	30.24
ATOM	5427	CZ	ARG !			64.271	14.194	76.723	1 00	24.98
ATOM	5428	NH:				65.363 64.365	12.896	78.333	1 00	36.15
ATOM	5429		2 ARG I			60.406	10.775	73.922	1.00	20.46
ATOM	5430	C	ARG !			60.850	10.773	72.868	1 .00	18.70
ATCM	5431	0		3 3 3 4		60.070	9.988	74.937		22.48
ATOM	5432	N		3 3 3 5		60.226	8.542	74.845	1.00	19.70
ATOM		CA		305 305		59.847	7.894	76.174	1.00	24.24
ATCM	5434			305 305		59.407	7.930		1.00	15.82
ATOM	5435	С	المسلدة	3 305		55.407				

: mon	5436	0	ALA B	305	5	9.938	7.18	RΔ	72.888	1 00	19.12
MOTA						8.113	8.23		73.659		18.65
MOTA	5437	N	TRP B								
ATOM	5438	CA	TRP B			7.298	7.6		72.600		19.57
ATOM	5439	CB		306		5.800	7.89		72.893		18.26
ATOM	5440	CG	TRP B	306	5:	5.301	6.9		73.953		20.71
ATOM	5441	CD2	TRP B	306	5	4.087	7.02	25	74.708	1.00	23.94
MOTA	5442	CE2	TRP B		5	3.988	5.8	70	75.513	1.00	24.73
	5443	CE3		306		3.073	7.99		74.780	1.00	26.01
ATOM				306		5.872	5.7		74.326		20.04
ATOM	5444					5.092	5.0		75.260		19.17
ATOM	5445	NE1		306							
ATOM	5446	CZ2		306		2.912	5.6		76.385		28.04
ATOM	5447	CZ3	TRP B			2.001	7.7		75.646		28.68
ATOM	5448	CH2	TRP B	306		1.930	6.6		76.437		31.22
MOTA	5449	С	TRP B	306	5	7.665	8.2	23	71.226		23.48
ATOM	5450	0	TRP B	306	5	7.416.	7.5	74	70.212		22.38
ATOM	5451	N		307	5	8.262	9.4	12	71.176	1.00	22.36
ATOM	5452	CA		307	5	8.672	9.9	53	69.880	1.00	25.94
	5453	CB	THR B			9.143	11.4		69.986		25.88
MOTA			THR B			8.015	12.2		70.258		21.07
ATOM	5454	OG1				9.827	11.8		68.686		22.52
MOTA	5455	CG2		307							30.09
ATOM	5456	С		307		9.815	9.0		69.350		
MOTA	5457	0		307		9.922	8.8		68.144		25.82
ATOM	5458	N		308	_	0.664	8.5		70.258		27.54
MOTA	5459	CA	LEU B	308		1.773	7.7		69.857		26.76
ATOM	5460	CB	LEU B	308	6	2.691	7.4	24	71.054	1.00	24.24
ATOM	5461	CG	LEU B	308	6	3.420	8.6	14	71.718	1.00	31.16
ATOM	5462	CD1		308	6	4.282	8.1	47	72.877	1.00	24.71
MOTA	5463	CD2		308		4.289	9.3		70.700	1.00	24.59
	5464	C		308		1.184	6.4		69.287		27.20
MOTA				308		1.609	5.9		68.234		23.52
MOTA	5465	0				0.190	5.8				25.10
MOTA	5466	N		309							25.14
ATOM	5467	CA		309		9.537	4.6		69.530		
MOTA	5468	CB		309		8.387	4.2		70.485		27.05
MOTA	5469	CG2		309		7.646	3 .0		69.926		23.57
MOTA	5470	CG1		309		8.952	3.9		71.868		22.98
MOTA	5471	CD1		309		9.927	2.7		71.868		24.25
ATOM	5472	С	ILE B	309	5	8.958	4.8	85	68.133		25.41
ATOM	5473	0	ILE B	309	5	9.177	4.0	64	67.243		22.13
ATOM	5474	N	TRP B	310	5	8.232	5.9	84	67.943	1.00	27.45
ATOM	5475	CA	TRP B		5	7.618	6.2	66	66.648		29.27
ATOM	5476	C3	TRP B		5	6.721	7.5	05	66.715	1.00	27.00
ATOM	5477	CG	TRP B		5	6.112	7.8	47	65.378	1.00	28.26
ATOM	5478	CD2	TRP B			5.172	7.0		64.633	1.00	27.50
		CE2		310		4.947	7.7		63.408		30.47
ATOM	5479		TRP B			4.500	5.8		64.877		29.85
ATOM	5480	CE3	TOP D	310		6.406	۶.9			1 00	29.76
MOTA	5481	CD1	TRP B							1.00	26.71
ATOM	5482	NE1	TRP B			5.713	. 8		63.415		
MOTA	5483	CZ2	TRP B			4.076		234	62.429		28.23
ATCM	5484	CZ3	TRP B			3.636	5.3		63.901		30.24
ATOM	5485	CH2	TRP B	310		3.433	6.0		62.692		27.63
ATOM	5486	С	TRP B	310	5	8.629	6.4	124	65.520		30.16
ATOM	5487	o	TRP B		5	8.378	5.9	64	64.410	1.00	30.04
ATOM	5488	N	CYS B		5	9.762	7.0	69	65.793	1.00	24.26
ATOM	5489	CA	CYS B			0.782	7.2		64.764	1.00	27.97
	5490	CB	CYS B			1.893	8.1		65.252		28.21
MOTA						1.422	9.9		65.381		33.38
ATOM	5491	SG	CYS B			1.380	5.8		64.351		30.02
ATOM	5492	C	CYS B						63.172		25.45
ATCM	5493	0	CYS B			1.670	5.6				31.59
ATOM	5494	N	GLU B			1.570			65.327		
ATOM	5495	CA	GLU B			2.111	3.6		65.067		33.48
ATOM	5496	CB	GLU B			2.142	2.8		66.352		34.78
ATOM	5497	CG	GLU B	312		33.487	2.3		66.758		39.45
ATOM	5498	CD	GLU B			54.171	1.5		65.675		40.11
ATOM	5499	OE1	GLU B		6	3.539	0.6	514	65.081		43.69
ATOM	5500		GLU B		6	55.358	1.7	782	65.437	1.00	39.26
ATCM	5501	c	GLU B	312		1.197	2.9		64.080	1.00	29.97
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ATOM	5502	0	GLU B 312		61.640	2.497	63.035	1.00 31.38
MOTA	5503	N	LEU B 313		59.919	2.865	64.438	1.00 26.70
ATOM	5504	CA	LEU B 313		58.930	2.203	63.598	1.00 26.73
ATOM	5505	CB	LEU B 313		57.571	2.173	64.297	1.00 25.83
MOTA	5506	CG	LEU B 313		57.429	1.224	65.477	1.00 35.18
ATOM	5507	CD1	LEU B 313		56.063	1.434	66.130	1.00 32.49
ATOM	550.8	CD2	LEU B 313		57.595	-0.215	64.989	1.00 29.71
ATOM	5509	С	LEU B 313		58.768	2.866	62.248	1.00 29.03
MOTA	5510	0	LEU B 313		58.716	2.187	61.228	1.00 25.39
ATOM	5511	N	SER B 314		58.677	4.194	62.263 61.060	1.00 30.13 1.00 34.06
MOTA	5512	CA	SER B 314	•	58.498	5.006	61.445	1.00 34.00
ATOM	5513	CB	SER B 314		58.206 57.041	6.456 6.537	62.234	1.00 48.58
MOTA	5514	OG	SER B 314		59.707	5.003	60.151	1.00 31.84
ATOM	5515	C	SER B 314 SER B 314		59.632	5.469	59.026	1.00 34.15
ATOM	5516 5517	и	GLY B 315		60.831	4.515	60.655	1.00 31.81
ATOM ATOM	5518.	CA	GLY B 315		62.036	4.485	59.848	1.00 37.27
ATOM	5519	C	GLY B 315		62.659	5.851	59.616	1.00 39:93
ATOM	5520	ō	GLY B 315		63.363	6.054	58.624	1.00 39.79
ATOM	5521	N	ARG B 316		62.422	6.798	60.518	1.00 38.22
MOTA	5522	CA	ARG B 316		63.004	8.121	60.336	1.00 38.66
ATOM	55 2 3	CB	ARG B 316		61.908	9.184	60.275	1.00 40.20
MOTA	5524	CG	ARG B 316		61.089	9.345	61.520	1.00 39.00
ATOM	5525	CD	ARG B 316		60.032	10.398	61.284	1.00 42.13
MOTA	5526	NE	ARG B 316		59.002	9.954	60.352	1.00 45.09
MOTA	5527	CZ	ARG B 316		58.075	10.754	59.838	1.00 40.84 1.00 48.44
MOTA	5528		ARG B 316	•	58.064	12.033	60.170 59.014	1.00 48.44
MOTA	. 5529		ARG B 316	•	57.150 64.031	10.278 8.467	61.408	1.00 39.03
ATOM	5530	C	ARG B 316		63.952	7.988	62.539	1.00 34.34
ATOM	5531	0	ARG B 316 GLU B 317		65.003	9.296	61.035	1.00 39.58
ATOM	5532 5533	N CA	GLU B 317	•	66.074	9.697	61.943	1.00 43.35
MOTA MOTA	5534	CB	GLU B 317		67.142	10.509	61.203	1.00 49.34
ATOM	5535	CG	GLU B 317		67.609	9.910	59.884	1.00 57.04
ATOM	5536	CD	GLU B 317		66.546	10.009	58.798	1.00 62.79
MOTA	5537	OE1			66.146	11.149	58.467	1.00 63.46
ATOM	5538	OE2	GLU B 317		66.108	8.954	58.280	1.00 64.46
MOTA	5539	С	GLU B 317		65.555	10.528	63.100	1.00 41.58
MOTA	5540	0	GLU B 317		64.658	11.356	62.939 64.278	1.00 39.74 1.00 35.38
MOTA	5541	N	VAL B 318		66.118 65.706	10.301 11.049	65.448	1.00 33.36
ATOM	5542	CA	VAL B 318		66.000	10.265	66.750	1.00 42.28
ATOM	5543	CB	VAL B 318 VAL B 318		65.560	11.080	67.962	1.00 38.26
MOTA	5544	CG1	VAL B 318		65.287	8.916	66.722	1.00 39.99
MOTA	5545 5546	C	VAL B 318		66.459	12.370	65.478	1.00 41.82
ATOM .TOM	5547	0	VAL B 318		67.689	12.395	65.570	1.00 37.20
MOTA.	5548	N	PRO B 319		65.735	13.491	65.356	1.00 43.18
ATOM	5549	CD	PRO B 319		64.290	13.672	65.155	1.00 41.90
ATOM	5550	CA	PRO B 319		66.402	14.792	65.388	1.00 44.31
ATOM	5551	CB	PRO B 319		65.241	15.763	65.181	1.00 44.58
ATOM	5552	CG	PRO B 319		64.079	15.011	65.795	1.00 43.34
ATOM	5553	С	PRO B 319		67.086	14.965	66.741	1.00 44.62 1.00 43.75
ATOM	5554	0	PRO B 319		66.541	14.565	67.771 66.735	1.00 44.16
MOTA	5555	N	GLU B 320		68.277	15.552 15.762	67.967	1.00 45.92
MOTA	5556	CA	GLU B 320		69.029 70.381	16.406	67.663	1.00 50.87
ATOM	5557	CB	GLU B 320		70.361	16.768	68.919	1.00 53.71
ATOM	5558	CG	GLU B 320 GLU B 320		72.455	17.505	68.620	1.00 57.75
ATOM	5559	CD OF1			73.161	17.874	69.583	1.00 56.37
MOTA	5560 5561	0E1			72.762	17.714	67.427	1.00 60.07
ATOM ATOM	5562	C	GLU B 320		68.311	16.625	68.995	1.00 44.42
ATOM	5563	o	GLU B 320		68.244	16.279	70.168	1.00 42.32
ATOM	5564	.N	LYS B 321		67.778	17.753	68.550	1.00 42.50
ATOM	5565	CA	LYS B 321		67.102	18.672	69.448	1.00 45.24
ATOM	5566	CB	LYS B 321		67.853	20.000	69.503	1.00 46.43
MOTA	5567	CG	LYS B 321		67.890	20.802	68.195	1.00 51.45

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ATOM	5568	CD	LYS	3	321		68.700	20.144	67.057	1.00 57.24
ATOM	5569	CE	LYS		321		67.936	19.062	66.280	1.00 55.24
	5570	NZ	LYS		321		66.738	19.588	65.558	1.00 55.31
ATOM									69.098	
ATOM	5571	С	LYS		321		65.662	18.971		1.00 43.44
MOTA	5572	0	LYS		321		65.211	18.736	67.978	1.00 43.03
ATOM	5573	N	LEU	₿	322		64.947	19.512	70.076	1.00 39.45
ATOM	5574	CA	LEU	В	322		63.563	19.885	69.875	1.00 40.31
ATOM	5575	CB	LEU		322		62.846	20.034	71.215	1.00 40.88
	5576	ĊĞ	LEU		322		62.943	18.901	72.234	1.00 40.09
_ATOM							62.001			
ATOM	5577		LEU		322			19.175	73.388	1.00 38.17
ATOM	5578		LEU		322		62.588	17.596	71.580	1.00 41.56
ATOM	5579	С	LEU		322		63.615	21.244	69.197	1.00 41.23
ATOM	5580	0	LEU	В	322	•	64.466	22.070	69.531	1.00 39.22
MOTA	5581	N	ASN	В	323		62.735	21.473	68.233	1.00 40.04
ATOM	5582	CA	ASN		323		62.703	22.771	67.582	1.00 43.32
ATOM	5583	CB	ASN		323		61.985	22.707	66.234	1.00 41.53
	5584	CG	ASN		323		60.617	22.085	66.335	1.00 41.89
ATOM										
ATOM	5585		ASN		323		59.889	22.308	67.304	1.00 39.79
ATOM	5586		ASN		323		60.243	21.317	65.317	1.00 40.43
ATOM	5587	С	ASN		323		61.949	23.690	68.532	1.00 44.76
MOTA	5588	0	ASN	В	323		61.402	23.237	69.539	1.00 45.80
MOTA	5589	N	ASN	В	324		61.902	24.973	68.210	1.00 46.85
ATOM	5590	CA	ASN		324		61.234	25.930	69.076	1.00 47.60
ATOM	5591	CB	ASN		324		61.460	27.348	68.549	1.00 50.87
			ASN		324		61.089	28.407	69.562	1.00 55.06
ATOM	5592	CG								
ATOM	5593		ASN		324		59.925	28.565	69.919	1.00 60.68
ATOM	5594	ND2	ASN		324		62.091	29.131	70.048	1.00 59.17
ATOM	5595	С	ASN	3	324		59.740	25.664	69.249	1.00 43.97
ATOM	5596	0	ASN	В	324		59.190	25.898	70.322	1.00 41.33
ATOM	5597	N	LYS	В	325		59.087	25.168	68.201	1.00 43.49
ATOM	5598	CA	LYS		325	•	57.655	24.892	68.264	1.00 45.95
ATOM	5599	CB	LYS				57.112	24.415	66.909	1.00 48.97
	5600		LYS		325		57.212	25.400	65.731	1.00 53.41
ATOM		CG			325		58.582	25.386	65.024	1.00 58.77
ATOM	5601	CD	LYS							
ATOM	5602	CE	LYS		325		59.700	26.013	65.846	1.00 58.10
ATOM	5603	NZ	LYS		325		61.024	25.906	65.178	1.00 53.38
atom	5604	С	LYS		325		57.368	23.822	69.309	1.00 45.79
ATOM	5605	0	LYS	В	325		56.375	23.891	70.034	1.00 43.91
ATOM	5606	N	ALA	В	326		58.245	22.829	69.381	1.00 44.28
ATOM	5607	CA	ALA	В	326		58.078	21.746	70.336	1.00 44.25
ATOM	5608	CB	ALA		326		59.013	20.589	69.986	1.00 41.44
ATOM	5609	c	ALA		326		58.342	22.233	71.757	1.00 40.92
			ALA		326		57.639	21.843	72.688	1.00 39.02
ATOM	5610	0								
ATOM	5611	N	LYS		327		59.352	23.085	71.922	1.00 38.14
ATOM	5612	CA	LYS				59.689	23.603	73.246	1.00 40.11
ATOM	5613	CB	LYS	В	327		60.892	24.552	73.178	1.00 42.36
ATOM	5614	CG	LYS	В	327		62.174	23.922	72.: 59	1.00 45.78
ATOM	5615	CD	LYS	В	327		63.325	24.926	72. <i>t</i> 75	1.00 48.46
ATOM	5616	CE	LYS	В	327		64.594	24.367	72.031	1.00 49.62
ATOM	5617	NZ	LYS				65.108	23.139	72.700	1.00 48.53
ATOM	5618	c	LYS				58.500	24.338	73.841	1.00 39.17
							58.132	24.112	74.994	1.00 38.87
ATOM	5619	0	LYS							
ATOM	5620	N	GLU				57.898	25.215	73.048	1.00 41.06
atom	5621	CA	GLU				56.750	25.986	73.512	1.00 42.35
ATOM	5622	CB	GLU	В	328		56.357	27.028	72.463	1.00 44.02
ATOM	5623	CG	GLIJ	В	328		57.434	28.084	72.258	1.00 44.80
ATOM	5624	CD	GLU	5	328		57.835	28.742	73.569	1.00 48.40
ATOM	5625		GLU				56.949	29.317	74.237	1.00 51.20
ATOM	5626		GLU				59.029	28.680	73.935	1.00 47.81
							55.569	25.087	73.839	1.00 38.67
ATOM	5627	c	GLU						74.750	1.00 41.20
ATOM	5628	0	GLU				54.794	25.377		
RIOM	5629	N	LEU			•	55.429	23.999	73.090	1.00 35.31
RICM	5630	CA	LEU				54.349	23.056	73.334	1.00 32.69
ATCM	5631	CB	LEU	В	329		54.404	21.900	72.334	1.00 35.06
ATOM	5632	CG	LEU	В	329		53.344	20.813	72.544	1.00 35.01
ATOM	5633		LEU				51.958	21.430	72.419	1.00 36.90
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ATOM	5634	CD2	LEU B	329	53.521	19.699	71.525	1.00 32.36
ATOM	5635	С	LEU B	329	54.504	22.507	74.747	1.00 34.07
ATOM	5636	0	LEU B		53.621	22.664	75.583	1.00 30.53
MOTA	5637	N	LEU B		55.640	21.873	75.013	1.00 32.74
MOTA	5638	CA	LEU B		55.889	21.311	76.330	1.00 34.99
ATOM	5639	CB	LEU B		57.267	20.642	76.382	1.00 37.01
MOTA	5640	CG	LEU B		57.466	19.428	75.470	1.00 34.91
MOTA	5641		LEU B		58.832	18.817	75.728	1.00 34.69
ATOM	5642	CD2	LEU B		56.369	18.396	75.742	1.00 34.10
MOTA	5643	С	LEU B		55.789	22.363	77.429	1.00 37.12 1.00 34.19
MOTA	5644	0	LEU B		55.210	22.110	78.482 77.186	1.00 34.19
MOTA	5645	N	LYS B		56.353 56.313	23.540 24.604	78.181	1.00 43.35
MOTA	5646	CA	LYS B		57.162	25.788	77.712	1.00 46.25
MOTA	5647	CB	LYS B		58.658	25.496	77.685	1.00 51.07
ATOM	5648	CG	LYS B		59.482	26.610	77.021	1.00 49.96
ATOM	5649 5650	CD CE	LYS B		59.371	27.957	77.733	1.00 53.08
MOTA	5651	NZ	LYS B		58.013	28.569	77.662	1.00 56.18
ATOM ATOM	5652	C	LYS B		54.892	25.069	78.494	1.00 42.06
ATOM	5653	0	LYS B		54.588	25.416	79.631	1.00 43.05
ATOM	5654	N	SER B		54.018	25.056	77.492	1.00 44.54
ATOM	5655	CA	SER B		52.639	25.502	77.679	1.00 46.58
ATOM	5656	CB	SER B		51.975	25.751	76.329	1.00 48.75
ATOM	5657	OG	SER B	332	51.769	24.527	75.646	1.00 49.55
ATOM	5658	С	SER B		51.780	24.507	78.451	1.00 49.56
ATOM	5659	0	SER B		50.618	24.791	78.749	1.00 46.67
MOTA	5660	N	ILE B		52.341	23.345	78.770	1.00 50.55 1.00 51.93
MOTA	5661	CA	ILE B		51.586	22.326	79.488	1.00 51.93
MOTA	5662	CB	ILE B		52.259	20.945 19.902	79.376 80.134	1.00 50.29
MOTA	5663	CG2			51.447 52.359	20.539	77.905	1.00 52.18
MOTA	5664	CG1			53.044	19.210	77.693	1.00 55.42
MOTA	5665		ILE B		51.367	22.634	80.964	1.00 51.45
MOTA	5666 5667	С 0	ILE E		52.180	23.290	81.614	1.00 50.96
MOTA MOTA	5668	Ŋ	ASP E		50.245	22.141	81.472	1.00 54.05
ATOM	5669	CA	ASP E		49.850	22.306	82.865	1.00 58.15
MOTA	5670	CB	ASP E		48.320	22.216	82.959	1.00 60.38
ATOM	5671	CG	ASP E		47.751	20.972	82.262	1.00 63.85
ATOM	5672	3D1	ASP E	3 3 3 4	48.017	19.833	82.710	1.00 59.16
ATOM	5673	OD2	ASP E		47.033	21.138	81.252	1.00 59.71
ATOM	5674	С	ASP E		50.506	21.207	83.701	1.00 55.47 1.00 54.08
ATOM	5675	0	ASP E	3 3 3 4	49.833	20.291	84.171 83.906	1.00 54.60
MOTA	5676	N	PHE E		51.816	21.307 20.266	84.641	1.00 56.60
MOTA	5677	CA	PHE F	3 335	52.524 53.718	19.784	83.811	1.00 53.01
MOTA	5678	CB	PHE PHE		54.522	18.717	84.482	1.00 49.30
ATOM	5679	CG	PHE I		53.898	17.589	85.008	1.00 45.61
ATOM	5680 5681	CD3	PHE	3 3 3 5	55.901	18.843	84.605	1.00 46.83
atom atom	5682	CE1	PHE	335	54.637	16.600	85.651	1.00 45.95
ATOM	5683	CE2		3 3 3 5	56.651	17.860	85.247	1.00 46.02
MOTA	5684	cz		3 3 3 5	56.018	16.737	85.772	1.00 46.08
ATOM	5685	c	PHE I	3 3 3 5	52.971	20.559	86.072	1.00 57.29
ATOM	5686	0		335	52.197	20.378	87.012	1.00 63.54
ATOM	5687	N	GLU I	3 3 3 6	54.223	20.983	86.229	1.00 55.21
ATOM	5688	CA		3 3 3 6	54.818	21.286	87.535	1.00 60.30 1.00 64.95
ATOM	5689	СB	GLU !	336	53.783	21.846	88.517	1.00 64.95 1.00 71.50
ATOM	5690	CG	GLU I	B 336	54.375	22.225	89.867 90.787	1.00 71.30
ATCM	5691	CD		B 336	53.363	22.882 23.925	90.787	
MOTA	5692	OE:		B 336	52.796 53.137	22.361	91.901	1.00 75.84
atom	5693	OE:		B 335	55.485	20.058	88.146	
MOTA	5694	C		B 336	54.823	19.093	88.529	
ATOM	5695	Ö		B 336 B 337	56.807	20.125		1.00 54.26
ATOM	5696	N	CTIT	B 337	57.630	19.047		1.00 54.35
ATOM	5697	CA CB		B 337	59.101	19.457		1.00 54.08
ATOM	5698 5699	CG		B 337	60.074	18.315		
ATOM	2022	د د					•	

ATOM	5700	CD	GLU B	337	59.856	17.496	87.259	1.00 48.94
ATOM	5701		GLU B		59.958	18.049	86.142	1.00 41.06
	-							
ATOM	5702	OE2			59.581	16.292	87.391	1.00 50.23
ATOM	5703	С	GLU B	337	57.278	18.740	90.227	1.00 55.08
ATOM	5704	0	GLU B	337	57.130	19.651	91.039	1.00 54.51
ATOM	5705	N	PHE B	338	57.140	17.458	90.557	1.00 56.20
	-							
ATOM	5706	CA	PHE B		56.798	17.048	91.918	1.00 57.73
MOTA	5707	CB	PHE B	338	56.713	15.527	92.020	1.00 58.47
ATOM	5708	CG	PHE B	338	56.231	15.034	93.359	1.00 63.17
ATOM	5709	CD1			54.882	15.096	93.696	1.00 64.86
			PHE B					
ATOM	5710				57.129	14.526	94.293	
ATOM	5711	CE1		338	54.434	14.656	94.943	1.00 65.25
ATOM	5712	CE2	PHE B	338	56.693	14.087	95.539	1.00 63.64
MOTA	5713	CZ	PHE B	338	55.342	14.152	95.864	1.00 66.30
ATOM	5714	c	PHE B	338	57.836	17.539	92.918	
								1.00 61.85
ATOM	5715	0	PHE B		57.520	17.807	94.078	1.00 58.15
MOTA	5716	N	ASP B	339	59.081	17.636	92.466	1.00 64.63
ATOM	5717	CA	ASP B	339	60.167	18.099	93.316	1.00 67.53
ATOM	5718	CB	ASP B	339	61.286	17.059	93.362	1.00 67.32
ATOM	5719	CG	ASP B	339	62.474	17.524	94.174	
								1.00 68.13
ATOM	5720	OD1		339	62.280	17.909	95.346	1.00 68.68
atom	5721	OD2	ASP B	339	63.603	17.502	93.646	1.00 69.03
ATOM	5722	С	ASP B	339	60.718	19.435	92.829	1.00 69.03
ATOM	5723	0	ASP B		61.211	19.545	91.708	1.00 67.54
ATOM	5724	N	ASP B		60.626			
						20.442	93.693	1.00 72.19
ATOM	5725	CA	ASP B		61.088	21.797	93.402	1.00 75.20
ATOM	5726	CB	ASP B	340	61.113	22.623	94.689	1.00 77.04
ATOM	5727	CG	ASP B	340	59.766	22.671	95.375	1.00 78.70
ATOM	5728	ODI	ASP B		58.803	23.181	94.763	1.00 79.66
ATOM	5729	OD2		340	59.668			
						22.194	96.525	1.00 80.53
MOTA	5730	C	ASP B		62.464	21.856	92.751	1.00 74.82
ATOM	5731	0	ASP B	340	62.615	22.400	91.659	1.00 78.48
ATOM	5732	N	GLU B	341	63.465	21.303	93.426	1.00 74.11
ATOM	5733	CA	GLU B		64.827	21.312	92.907	1.00 76.25
ATOM	5734	CB	GLU B		65.818			
						21.596	94.040	1.00 79.54
ATOM	5735	CG		341	67.277	21.653	93.596	1.00 82.33
ATOM	5736	CD	GLU B	341	67.539	22.750	92.577	1.00 83.24
MOTA	5737	OE1	GLU B	341	67.333	23.937	92.910	1.00 85.25
ATOM	5738	OE2	GLU B	341	67.950	22.427	91.443	1.00 83.72
ATOM	5739	C		341	65.196	19.998	92.227	
	5740		-					1.00 73.97
MOTA		0		341	65.627	19.051	92.883	1.00 77.10
ATOM	5741	Ŋ		342	65.033	19.946	90.910	1.00 71.92
ATOM	5742	CA	VAL B	342	65.354	18.744	90.151	1.00 68.51
ATOM	5743	CB	VAL B	342	64.081	18.027	89.663	1.00 68.83
ATOM	5744		VAL 3		63.268	17.552	90.837	1.00 67.57
ATCM	5745							
			VAL B		03.233	18.969		
MOTA	5746	C	VAL B		66.201	19.059	88.927	1.00 65 35
ATOM	5747	0	VAL B	342	67.177	18.366	88.640	1.00 68.31
MOTA	5748	N	ASP B	343	65.819	20.112	88.213	1.00 60.89
ATOM	5749	CA	ASP B		66.514	20.520	86.998	1.00 58.89
	5750							
MOTA		CB	ASP B		68.024	20.636	87.223	1.00 63.48
ATOM	5751	CG	ASP B		68.763	21.070	85.966	1.00 66.69
ATOM	5752	OD1	ASP B	343	70.012	21.070	85.970	1.00 67.64
ATOM	5753		ASP B		68.089	21.420	84.973	1.00 65.42
ATOM	5754	c	ASP B		66.264	19.499		1.00 53.17
							85.900	
ATOM	5755	0	ASP B		66.993	18.516	85.766	1.00 49.70
ATOM	5756	N	ARG B	344	65.216	19.735	85.124	1.00 50.24
ATOM	5757	CA	ARG B	344	64.868	18.853	84.022	1.00 46.49
ATOM	5758	СВ	ARG B		63.467	18.269	84.228	1.00 42.41
ATOM	5759		ARG B					
		CG			63.317	17.367	85.452	1.00 38.59
ATOM	5760	CD	ARG B		64.344	16.246	85.432	1.00 37.12
atom	5761	NE	arg b	344	64.169	15.310	86.537	1.00 36.55
MOTA	5762	CZ	ARG B	344	65.078	14.413	86.905	1.00 37.20
ATOM	5763		ARG B		66.234	14.331	86.259	1.00 33.53
ATOM	5764		ARG B		64.830			
						13.595	87.915	1.00 28.79
ATOM	5765	С	ARG B	344	64.910	19.660	82.732	1.00 44.45



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ATOM	5766	0	ARG B	344	64.328	19.269	81.720	1.00 38.73
ATOM	5767	N	SER B		65.618	20.784	82.783	1.00 42.44
	5768	CA	SER B		65.740	21.677	81.637	1.00 41.74
MOTA					66.661	22.849	81.993	1.00 43.47
MOTA	5769	CB	SER B		67.956	22.388	82.351	1.00 46.96
MOTA	5770	OG	SER B				80.375	1.00 36.32
MOTA	5771	C	SER B		66.244	20.981		
MOTA	5772	0 _	SER B		65.840	21.333	79.273	1.00 35.70
MOTA	5 7 73	N	TYR B		67.117	19.992	80.534	1.00 33.93
ATOM	5774	CA	TYR B	346	67.661	19.264	79.391	1.00 34.77
MOTA	5775	CB	TYR B	346	68.660	18.206	79.87 7	1.00 36.09
MOTA	5776	CG	TYR B	346	68.054	17.146	80.774	1.00 34.27
ATOM	5777	CD1	TYR B	346	67.433	16.013	80.240	1.00 37.62
ATOM	5778	CE1	TYR B	346	66.843	15.048	81.077	1.00 36.73
ATOM	5779	CD2	TYR B	346	68.072	17.294	82.157	1.00 36.40
ATOM	5780	CE2	TYR B	346	67.489	16.344	82.999	1.00 36.54
ATOM	5781	CZ	TYR B		66.878	15.228	82.457	1.00 36.54
ATOM	5782	OH	TYR B		66.310	14.306	83.306	1.00 33.35
ATOM	5783	Ċ	TYR B		66.563	18.599	78.570	1.00 36.26
ATOM	5784	ō	TYR B	_	66.719	18.385	77.367	1.00 40.50
ATOM	5785	N	MET B		65.445	18.282	79.214	1.00 32.72
ATOM	5786	CA	MET B		64.346	17.628	78.516	1.00 35.43
	5787	CB	MET B		63.280	17.164	79.513	1.00 34.36
ATOM	5788	CG	MET B		63.819	16.292	80.635	1.00 28.32
ATOM			MET B		62.515	15.604	81.669	1.00 34.47
MOTA	5789	SD			61.654	17.027	82.142	1.00 39.60
ATOM	5790	CE	MET B		63.701	18.525	77.465	1.00 39.04
ATOM	5791	C			63.060	18.029	76.540	1.00 37.38
MOTA	5792	0	MET B		63.857	19.839	77.606	1.00 39.21
MOTA	5793	N	LEU B		63.272	20.773	76.645	1.00 40.81
MOTA	5794	CA	LEU B		62.806	22.058	77.339	1.00 36.87
MOTA	5795	CB	LEU B		61.690	21.975	78.384	1.00 42.66
MOTA	5796	CG	LEU B		61.507	23.337	.79.032	1.00 43.41
ATOM	5797		LEU B				77.741	1.00 40.47
MOTA	5798		LEU B		60.391	21.511		
MOTA	5799	C	LEU B		64.289	21,133	75.573	1.00 41.13
MOTA	5800	0	LEU B		64.018	21.968	74.711	1.00 38.93
MOTA	5801	N	GLU B		65.455	20.495	75.632	1.00 37.70 1.00 42.48
ATOM	5802	CA	GLU B		66.527	20.757	74.681	
MOTA	5803	CB	GLU B		67.856	20.953	75.422	1.00 45.02
ATOM	5804	CG	GLU B		67.834	22.035	76.493	1.00 53.82
ATOM	5805	CD	GLU B		67.483	23.402	75.938	1.00 57.46
ATOM	5806	OE1			68.211	23.885	75.044	1.00 59.62
MOTA	5807	OE2			66.480	23.993	76.397	1.00 57.91
MOTA	5808	С	GLU B		66.709	19.638	73.664	1.00 43.57
ATOM	5809	0	GLU B		66.577	19.849	72.459	1.00 41.26
ATOM	5810	N	THR B		67.027	18.448	74.161	1.00 41.95
MOTA	5811	CA	THR B	350		17.299		1.00 40.02
ATOM	5812	CB	THR B	350	68.689	16.775	73.504	1.00 43.08
MOTA	5813	OG1		350	68.894	16.490	74.894	1.00 41.07
ATOM	5814	CG2			69.703	17.816	73.049	1.00 45.05
ATOM	5815	С	THR B		66.278	16.154	73.510	1.00 37.56
MOTA	5816	0	THR B		65.754	15.966	74.611	1.00 33.64
ATOM	5817	N	LEU B	351	66.043	15.391	72.445	1.00 32.86
ATOM	5818	CA	LEU B	351	65.126	14.260	72.475	1.00 35.00
ATOM	5819	CB	LEU B	351	64.776	13.810	71.053	1.00 31.61
MOTA	5820	CG	LEU B	351	63.709	14.601	70.312	1.00 35.31
MOTA	5821	CD1	LEU E	351	63.552	14.064	68.904	1.00 37.88
ATOM	5822	CD2	LEU E	351	62.397	14.474	71.068	1.00 39.36
ATOM	5823	С	LEU E		65.662	13.065	73.240	1.00 33.33
ATOM	5824	õ	LEU E		64.956	12.469	74.046	1.00 31.48
ATOM	5825	Ņ	LYS E		66.915	12.720	72.981	1.00 29.58
ATOM	5826	CA	LYS E		67.527	11.576	73.633	1.00 36.77
ATOM	5827	CB	LYS E		68.457	10.864	72.647.	1.00 34.32
ATOM	5828	CG	LYS E		67.777	10.563	71.326	1.00 39.29
ATOM	5829	CD	LYS E		68.703	9.949		1.00 42.25
·ATCM	5830	CE	LYS E		69.110	8.541	70.655	1.00 46.22
ATOM	5831	NZ	LYS E		69.831	7.905	69.516	1.00 44.15

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ATOM	5832	С	LYS B	352		68.295	11.983	74.878	1.00 36.30
ATOM	5833	0	LYS B	352		69.086	12.931	74.865	1.00 36.65
	5834		ASP B	353		68.049	11.275	75.967	1.00 30.01
ATOM		N							
ATOM	5835	CA		353		68.757	11.569	77.188	1.00 33.99
MOTA	5836	CB	ASP B	353		67.852	11.308	78.394	1.00 38.57
MOTA	5837	CG	ASP B	353		67.134	9.986	78.315	1.00 43.90
MOTA	5838		ASP B	353		66.034	9.851	78.926	1.00 22.39
							9.078	77.649	1.00 50.42
MOTA	5839		ASP B	353		67.679			
ATOM	5840	С	ASP B	353		70.022	10.723	77.202	1.00 35.83
ATOM	5841	Ο.	ASP B	353		70.189	9.833	76.368	1.00 23:71
ATOM	5842	N	PRO B	354		70.954	11.025	78.116	1.00 36.36
	5843	CD	PRO B	354		70.928	12.093	79.132	1.00 38.28
ATOM									
ATOM	5844	CA	PRO B	354		72.205	10.277	78.212	
MOTA	5845	CB	PRO B	354		73.003	11.104	79.213	1.00 34.46
ATOM	5846	CG	PRO B	354		71.896	11.556	80.164	1.00 38.08
ATOM	5847	C	PRO B	354		71.924	8.883	78.733	1.00 33.62
ATOM	5848	ō	PRO B	354		70.894	8.643	79.366	1.00 24.82
				355		72.833	7.954	78.468	1.00 31.76
MOTA	5849	N	TRP B						
MOTA	5850	CA	TRP B	355		72.635	6.611	78.969	1.00 30.01
MOTA	5851	CB	TRP B	355		73.653	5.655	78.359	1.00 34.02
ATOM	5852	CG	TRP B	355		73.025	4.378	77.910	1.00 44.37
ATOM	5853	CD2	TRP B	355		73.263	3.072	78.436	1.00 45.39
		CE2	TRP B	355		72.418		77.734	1.00 44.31
ATOM	5854		_			_			
MOTA	5855	CE3	TRP 3	355		74.107	2.569	79.432	1.00 47.19
ATOM	5856	CD1	TRP B	355		72.073	4.230	76.935	1.00 42.18
ATOM	5857	NEl	TRP B	355		71.704	2.910	76.826	1.00 37.84
ATOM	5858	CZ2	TRP B	355		72.395	0.808	77.999	1.00 44.97
ATOM	5859	CZ3	TRP B	355		74.084	1.207	79.694	1.00 50.83
		CH2	TRP B	355	-	73.231	0.341	78.979	1.00 48.73
MOTA	5860								
ATOM	5861	С		355		72.819	6.685	80.485	1.00 30.67
ATOM	5862	0	TRP B	355		73.622	7.474	80.981	1.00 26.93
MOTA	5863	N	ARG B	356		72.061	5.880	81.218	1.00 24.96
MOTA	5864	CA	ARG B	356		72.147	5.848	82.671	1.00 23.57
ATOM	5865	CB	ARG B			70.811	6:319	83.257	1.00 24.71
MOTA	5866	CG	ARG B			70.534	7.795	82.941	1.00 23.66
			ARG B	356		69.067	8.212	83.055	1.00 20.14
ATOM	5867	CD				68.926	9.610	82.642	1.00 20.59
ATOM	5868	NE	ARG B						
MOTA	5869	CZ	ARG B			67.787	10.192	82.288	1.00 25.41
ATOM	5870	NHl	ARG B			66.644	9.508	82.287	1.00 17.01
MOTA	5871	NH2	ARG B	356		67.796	11.464	81.910	1.00 20.07
ATOM	5872	С	ARG B	356		72.481	4.410	83.085	1.00 26.57
ATOM	5873	Ö	ARG B			71.610	3.641	83.485	1.00 23.02
	5874	N	GLY B			73.761	4.063	82.978	1.00 23.92
ATOM						74.186	2.712	83.294	1.00 25.54
ATOM	5875	CA	GLY B						
ATOM	5876	С	GLY B			74.796	2.464	84.657	1.00 24.35
ATOM	5877	0	GLY B			74.523	3.161	85.628	1.00 25.88
ATCM	5878	N	GLY B	358		75.638	1.444	84.718	1.00 24.32
ATOM	5879	CA	GLY B			76.282	1.070	85.960	1.00 23.56
ATCM	5880	C	GLY B			76.412	-0.441	85.924	1.00 29.26
						76.146	-1.051	84.889	1.00 23.71
ATCM	5881	Ö	GLY B						
ATCM	5882	N	GLU B			76.814	-1.051	87.033	1.00 27.64
ATOM	5883	CA	GLU B			76.955	-2.503	87.078	1.00 32.15
ATOM	5884	CB	GLU B	359		77.822	-2.936	88.265	1.00 30.40
ATOM	5885	CG	GLU B			77.125	-2.772	89.601	1.00 31.23
ATOM	5886	CD	GLU B			77.844	-3.479	90.741	1.00 37.96
						77.287	-3.521	91.861	1.00 37.30
atom	5887	JE1							
atom	5888	OE2				78.959	-3.990	90.520	1.00 37.40
ATOM	5889	С	GLU B			75.571	-3.122	87.261	1.00 31.35
ATOM	5890	0	GLU B	359		74.612	-2.429	87.588	1.00 25.15
ATCM	5691	N	VAL B			75.482	-4.428	87.053	1.00 29.61
ATCM	5892	CA	VAL B			74.230	-5.147	87.251	1.00 26.21
			VAL B			74.035	-6.270	86.200	1.00 28.47
ATCM	5893	CB							1.00 22.74
ATOM	5894	CG1				72.764	-7.045	86.492	
ATOM	5895	CG2				73.969	-5.670	84.796	1.00 29.70
ATOM	5896	С	VAL B			74.342	-5.784	88.625	1.00 26.00
ATCM	5897	၁	VAL B	360		75.150	-6.693	88.821	1.00 27.55

ATOM 5898 N ARG B 361 73.553 -5.289 89.575 1.00 26.45 ATOM 5900 CB ARG B 361 73.555 -5.521 90.935 1.00 28.47 ATOM 5901 CC ARG B 361 72.937 -3.877 92.485 1.00 32.61 ATOM 5902 CD ARG B 361 72.937 -3.877 92.094 1.00 30.35 ATOM 5904 CZ ARG B 361 70.858 -2.617 92.094 1.00 30.31 ATOM 5904 CZ ARG B 361 69.385 -1.689 39.117 1.00 30.50 ATOM 5905 NH1 ARG B 361 69.385 -1.689 39.107 1.00 18.49 ATOM 5906 NH2 ARG B 361 69.385 -1.689 39.505 1.00 18.49 ATOM 5906 NH2 ARG B 361 73.551 -1.689 39.605 1.00 18.49 ATOM 5907 ARG B 361 73.551 -7.322 91.001 1.00 30.49 ATOM 5908 O ARG B 361 73.551 -7.322 91.001 1.00 30.49 ATOM 5908 N ARG B 361 73.551 -7.322 91.001 1.00 30.49 ATOM 5908 O ARG B 361 73.551 -7.322 92.022 1.00 36.94 ATOM 5910 CA LYS B 362 73.364 -9.351 32.272 1.00 36.94 ATOM 5911 CE LYS B 362 73.364 -9.351 32.272 1.00 36.94 ATOM 5912 CG LYS B 362 76.190 -9.527 33.337 1.00 40.24 ATOM 5913 CD LYS B 362 76.590 -9.527 33.337 1.00 40.24 ATOM 5914 CE LYS B 362 76.590 -9.527 33.337 1.00 55.65 ATOM 5915 NZ LYS B 362 76.591 -9.529 93.491 1.00 56.65 ATOM 5917 O LYS B 362 76.591 -9.529 93.491 1.00 53.39 ATOM 5918 N GLU B 363 71.628 -9.075 37.215 1.00 33.09 ATOM 5919 C A GLU B 363 71.628 -9.075 37.215 1.00 33.72 ATOM 5910 C LYS B 362 76.591 -9.329 39.391 1.00 53.37 ATOM 5910 C LYS B 362 76.591 -9.329 39.391 1.00 53.37 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.81 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5921 CG G GLU B 363 69.502 -7.077 93.77 1.00 44.67 ATOM 5931 CC LYS B 366 69.503 -9.6186 99.503 1.00 29.081 ATOM 5930 CG GLU B 363 69.502 -7.077 93.977 1.00 40.00 40.00 ATOM 5931 CG GLU B 363 69.502 -7.077 93.977 1.00 40.00 40										
ATOM 5899 CA ABG B 361 73.558 -5.821 90.935 1.00 28.47 ATOM 5900 CB ARG B 361 72.479 -5.146 91.787 1.00 30.558 ATOM 5901 CG ARG B 361 72.479 -3.167 92.485 1.00 32.61 ATOM 5902 CD ARG B 361 72.479 -3.167 92.485 1.00 32.61 ATOM 5903 NE ARG B 361 70.4858 -2.617 92.094 1.00 30.31 ATOM 5905 NH1 ARG B 361 69.785 -1.925 22.550 1.00 28.45 ATOM 5905 NH1 ARG B 361 69.785 -1.925 22.550 1.00 28.45 ATOM 5907 C ARG B 361 69.785 -1.925 22.550 1.00 28.45 ATOM 5908 O ARG B 361 73.351 -7.322 91.001 1.00 30.17 ATOM 5908 O ARG B 361 73.351 -7.322 91.001 1.00 30.17 ATOM 5910 CA LYS B 362 73.344 -9.926 93.513 1.00 32.54 ATOM 5911 CB LYS B 362 73.344 -9.926 93.513 1.00 32.54 ATOM 5912 CB LYS B 362 74.887 -9.706 93.513 1.00 42.55 ATOM 5914 CE LYS B 362 76.571 -8.126 92.849 1.00 56.55 ATOM 5916 C LYS B 362 76.571 -8.126 92.463 1.00 32.84 ATOM 5916 C LYS B 362 76.571 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 363 71.628 -9.939 33.341 1.00 32.84 ATOM 5918 N LUB B 363 71.628 -9.939 33.345 1.00 32.84 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.	TOM .	5898	ห	ARG	В	361	73.553	-5.289	89.575	1.00 26.45
ATOM 5900 CB ARG B 361 72.947 -5.146 91.787 1.00 30.55 ATOM 5901 CG ARG B 361 72.947 -3.877 92.485 1.00 32.61 ATOM 5902 CD ARG B 361 70.858 -2.617 92.094 1.00 30.31 ATOM 5903 NE ARG B 361 70.858 -2.617 92.094 1.00 30.31 ATOM 5905 NH1 ARG B 361 69.385 -1.669 93.605 1.00 1.00 19.45 ATOM 5906 NH2 ARG B 361 69.385 -1.669 93.605 1.00 18.49 ATOM 5906 NH2 ARG B 361 69.385 -1.669 93.605 1.00 18.49 ATOM 5906 NH2 ARG B 361 72.665 -7.910 90.168 1.00 13.17 ATOM 5908 NH2 ARG B 361 72.665 -7.910 90.168 1.00 13.17 ATOM 5909 N LYS B 362 73.949 -7.922 92.022 1.00 33.09 ATOM 5901 CA LYS B 362 73.844 -9.351 92.772 1.00 36.94 ATOM 5901 CA LYS B 362 73.844 -9.351 92.772 1.00 36.94 ATOM 5911 CB LYS B 362 76.190 -9.527 93.337 1.00 40.24 ATOM 5912 CG LYS B 362 76.190 -9.527 93.337 1.00 40.24 ATOM 5913 CD LYS B 362 76.190 -9.527 93.337 1.00 52.55 ATOM 5915 NZ LYS B 362 76.190 -7.032 93.819 1.00 52.55 ATOM 5915 NZ LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5915 NZ LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5919 CA CLUB 363 70.425 -9.983 93.435 1.00 32.87 ATOM 5919 CA CLUB 363 69.519 -9.527 93.255 1.00 35.72 ATOM 5919 CA CLUB 363 69.519 -9.832 94.390 1.00 53.72 ATOM 5910 CB LUB 363 70.245 -9.839 93.435 1.00 32.87 ATOM 5920 CB CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5921 CG CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5921 CG CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5922 CD CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5923 OCT CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5923 OCT CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5920 CB CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5921 CG CVAL B 364 69.918 -9.832 94.390 1.00 36.87 ATOM 5920 CB CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5921 CG CVAL B 364 69.918 -9.832 94.390 1.00 36.87 ATOM 5920 CB CLUB 363 69.519 -9.832 94.390 1.00 36.87 ATOM 5921 CG CVAL B 364 69.918 -9.832 94.390 1.00 36.87 ATOM 5921 CG CVAL B 364 69.918 -9.918 94.910 1.00 36.87 ATOM 5921 CG							73 558	~5 921	90 935	
STOM Spoil CG ARG B 361 72.937 -3.877 92.485 1.00 32.61				_						
ATOM S902 CD ARG B 361 71.749 -3.163 93.117 1.00 35.00	ATOM	5900	CB							
STOM	MOTA	5901	CG	ARG	В	361	72.937	-3.877		
ATOM 5903 NE ARG B 361 70.858 -2.617 92.094 1.00 30.31 ATOM 5905 MH1 ARG B 361 69.753 -1.925 92.350 1.00 29.45 ATOM 5905 MH1 ARG B 361 69.041 -1.428 91.348 1.00 30.49 ATOM 5907 C ARG B 361 72.655 -7.910 90.168 1.00 23.60 ATOM 5909 N LYS B 362 73.864 -9.351 92.272 1.00 33.09 ATOM 5909 N LYS B 362 73.864 -9.351 92.272 1.00 33.09 ATOM 5910 CA LYS B 362 73.864 -9.351 92.272 1.00 36.94 ATOM 5912 CG LYS B 362 76.591 -8.126 92.849 1.00 55.55 ATOM 5914 CE LYS B 362 76.591 -8.126 92.849 1.00 55.65 ATOM 5914 CE LYS B 362 76.591 -8.126 92.849 1.00 56.65 ATOM 5916 C LYS B 362 76.591 -8.126 92.849 1.00 56.65 ATOM 5916 C LYS B 362 76.591 -8.126 92.849 1.00 56.65 ATOM 5916 C LYS B 362 76.591 -8.126 92.849 1.00 56.65 ATOM 5916 C LYS B 362 76.591 -8.126 92.849 1.00 56.65 ATOM 5916 C LYS B 362 76.591 -9.926 92.463 1.00 32.84 ATOM 5916 C LYS B 362 76.591 -9.932 93.391 1.00 52.84 ATOM 5916 C LYS B 362 72.045 -9.933 93.341 1.00 32.84 ATOM 5916 C LYS B 363 70.245 -9.933 93.341 1.00 32.84 ATOM 5917 O LYS B 362 72.045 -9.933 93.341 1.00 32.84 ATOM 5918 N GLUB 363 70.245 -9.943 93.341 1.00 32.84 ATOM 5912 CG LUB 363 69.502 -7.077 93.977 1.00 48.87 ATOM 5920 CB GLUB 363 69.502 -7.077 93.977 1.00 48.87 ATOM 5920 CB GLUB 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5921 CG LUB 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLUB 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5924 OEZ GLUB 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5925 C GLUB 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5924 OEZ GLUB 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5927 N VALB 364 69.516 -7.599 88.852 1.00 23.49 ATOM 5931 CCZ VALB 364 69.516 -7.599 88.852 1.00 23.49 ATOM 5931 CCZ VALB 364 69.516 -7.599 88.852 1.00 23.49 ATOM 5931 CCZ VALB 364 69.516 -7.599 88.852 1.00 23.49 ATOM 5931 CCZ VALB 364 69.516 -7.599 88.852 1.00 23.60 ATOM 5931 CCZ VALB 366 69.516 -7.599 88.859 1.00 23.49 ATOM 5931 CCZ VALB 366 69.516 -7.599 88.859 1.00 23.49 ATOM 5931 CCZ VALB 366 69.517 -7.918 88.500 1.00 23.61 ATOM 5931 CCZ VALB 366 69.657 -7.919 89.955 1.00 23.61 ATOM 5931 CCZ VALB 366 69.60 -7.59	ATOM	5902	CD	ARG	В	361	71.749	-3.163	93.117	1.00 35.00
ATOM 5906 C2 ARG B 361 69.753 -1.925 92.350 1.00 29.45 ATOM 5905 NH1 ARG B 361 69.041 -1.428 91.348 1.00 30.49 ATOM 5907 C ARG B 361 72.665 -7.910 90.168 1.00 28.45 ATOM 5908 O ARG B 361 72.665 -7.910 90.168 1.00 23.60 ATOM 5909 C ARG B 361 72.665 -7.910 90.168 1.00 23.60 ATOM 5910 CA LYS B 362 73.846 -9.351 92.272 1.00 36.94 ATOM 5910 CB LYS B 362 73.846 -9.351 92.272 1.00 36.94 ATOM 5911 CB LYS B 362 73.846 -9.351 92.272 1.00 36.94 ATOM 5912 CG LYS B 362 76.591 -9.706 93.513 1.00 40.24 ATOM 5913 CD LYS B 362 76.591 -9.706 93.513 1.00 40.24 ATOM 5913 CD LYS B 362 76.591 -9.527 93.337 1.00 55.65 ATOM 5915 NZ LYS B 362 76.591 -9.552 93.341 1.00 36.94 ATOM 5915 NZ LYS B 362 76.593 -5.680 93.341 1.00 36.87 ATOM 5915 NZ LYS B 362 76.593 -5.680 93.341 1.00 36.87 ATOM 5915 NZ LYS B 362 72.427 -9.826 92.463 1.00 32.82 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.82 ATOM 5919 CA GLUB B 363 70.245 -9.493 93.435 1.00 38.72 ATOM 5919 CA GLUB B 363 70.245 -9.493 93.435 1.00 36.94 ATOM 5919 CA GLUB B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5920 CB GLUB B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5921 CG GLUB B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5922 CD GLUB B 363 69.519 -9.619 95.311 1.00 44.81 ATOM 5924 CDE GLUB B 363 69.5502 -7.077 93.9777 1.00 44.81 ATOM 5925 C GLUB B 363 69.5502 -7.077 93.9777 1.00 44.81 ATOM 5926 CD GLUB B 363 69.565 1-9.619 95.111 1.00 30.65 ATOM 5926 CD GLUB B 363 69.5502 -7.077 93.9777 1.00 44.81 ATOM 5937 CC LYAL B 364 69.950 -9.619 95.111 1.00 30.65 ATOM 5930 CCI VAL B 364 69.950 -9.619 95.111 1.00 30.65 ATOM 5930 CCI VAL B 364 69.950 -9.619 95.111 1.00 30.65 ATOM 5931 CCC VAL B 364 69.950 -9.619 89.852 1.00 24.65 ATOM 5931 CC LYAL B 364 69.950 -9.619 89.851 1.00 24.65 ATOM 5937 CC LYS B 365 77.771 -9.689 89.952 1.00 24.65 ATOM 5937 CC LYS B 365 77.771 -9.689 89.952 1.00 24.65 ATOM 5937 CC LYS B 365 77.771 -9.689 89.952 1.00 24.65 ATOM 5939 CC LYS B 365 77.771 -9.689 93.9144 1.00 23.19 ATOM 5931 CC LYS B 366 70.666 -12.879 89.526 1.00 27.05 ATOM 5939 CC LYS B 366 70.666 -12.879 89.526							70.858	-2.617	92.094	1.00 30.31
ATOM 5906 NH1 ARG B 361 69.385 -1.689 93.605 1.00 18.49 ATOM 5906 NH2 ARG B 361 73.351 -7.322 91.001 1.00 30.17 ATOM 5908 N LYS B 362 73.351 -7.322 92.022 1.00 33.09 ATOM 5910 CA LYS B 362 73.864 -9.351 92.272 1.00 36.94 ATOM 5912 CG LYS B 362 74.687 -9.706 93.513 1.00 40.25.60 ATOM 5912 CG LYS B 362 76.571 -8.126 92.849 1.00 52.55 ATOM 5913 CD LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5914 CE LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5914 CE LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.337 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.319 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.527 93.319 1.00 52.55 ATOM 5916 C LYS B 362 76.591 -9.852 92.463 1.00 32.84 ATOM 5917 O LYS B 363 70.455 -9.852 92.463 1.00 32.84 ATOM 5921 CG GLU B 363 70.245 -9.075 93.215 1.00 34.67 ATOM 5920 CB GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.502 -9.619 92.111 1.00 30.68 ATOM 5925 C GLU B 363 69.502 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.503 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.503 -9.619 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.629 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.629 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.629 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.629 93.91.41 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.629 93.91.41 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.099 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.099 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.099 92.111 1.00 30.68 ATOM 5930 CG VAL B 364 69.504 -9.099 92.111 1.00 30.68 ATOM 5930 CG VAL B 366 69.504 -9.099 92.111 1.00 30.68 ATOM 5930 CG VA										
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ATOM 5910 N LYS B 362										•
ATOM 5910 CA LYS B 362 73.864 -9.351 92.272 1.00 36.994 ATOM 5911 CB LYS B 362 76.190 -9.527 93.337 1.00 52.55 ATOM 5913 CD LYS B 362 76.190 -9.527 93.337 1.00 52.55 ATOM 5914 CE LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5915 NZ LYS B 362 76.573 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5918 N GLU B 363 71.628 -9.707 93.375 1.00 28.27 ATOM 5918 N GLU B 363 70.245 -9.493 93.415 1.00 35.72 ATOM 5910 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5924 OEZ GLU B 363 69.502 -7.530 95.541 1.00 36.74 ATOM 5925 C GLU B 363 69.502 -7.530 95.541 1.00 36.84 ATOM 5926 O GLU B 363 69.502 -7.530 95.541 1.00 36.84 ATOM 5927 N VAL B 364 69.503 91.944 1.00 30.68 ATOM 5928 CA VAL B 364 69.18 -8.789 89.852 1.00 24.65 ATOM 5931 CG VAL B 364 69.18 -8.789 89.852 1.00 24.65 ATOM 5932 OEE GLU B 364 69.503 91.944 1.00 30.68 ATOM 5920 CG VAL B 364 69.18 -8.789 89.852 1.00 24.65 ATOM 5931 CG VAL B 364 69.09 -6.293 89.587 1.00 23.08 ATOM 5932 C VAL B 364 69.18 -8.789 89.852 1.00 24.65 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 364 69.503 -7.599 89.587 1.00 23.08 ATOM 5931 CG VAL B 366 66.695 -10.688 89.598 1.00 23.08 ATOM 5931 CG VAL B 366 66.695 -10.688 89.598 1.00 23.08 ATOM 5931 CG VAL B 366 67.666 1.00 69.39 89.587 1.00 23.08 ATOM 5932 C VAL B 366 67.666 1.00 69.39 89.587 1.00 23.08 ATOM 5930 CG VAL B 366 67.666 1.00 69.39 89.587 1.00 23.08 ATOM 5930 CG VAL B 366 68.697 -10.688 89.590 1.00 23.08 ATOM 5930 CG VAL B 36										
ATOM 5911 CB LYS B 362 74.687 -9.706 93.513 1.00 40.24 ATOM 5912 CG LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5914 CE LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5915 NZ LYS B 362 76.571 -8.126 92.849 1.00 53.39 ATOM 5916 C LYS B 362 76.573 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 76.573 -5.680 93.341 1.00 48.87 ATOM 5917 0 LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 0 LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5918 CG GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.502 -7.077 93.977 1.00 48.46 ATOM 5924 OE2 GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5925 C GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5920 CB VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5930 CGI VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5931 CGI VAL B 364 69.784 -8.724 91.166 1.00 23.19 ATOM 5931 CGI VAL B 364 69.510 -9.619 92.111 1.00 30.68 ATOM 5932 C VAL B 364 69.510 -9.619 92.111 1.00 30.45 ATOM 5930 CGI VAL B 364 69.510 -9.619 92.111 1.00 30.68 ATOM 5931 CGI VAL B 364 69.918 -8.724 91.166 1.00 23.19 ATOM 5931 CGI VAL B 364 69.784 -8.724 91.166 1.00 23.19 ATOM 5931 CGI VAL B 364 69.918 -8.724 91.166 1.00 23.19 ATOM 5930 CGI VAL B 364 69.918 -8.724 91.166 1.00 23.19 ATOM 5931 CGI VAL B 364 69.918 -8.724 91.166 1.00 23.08 ATOM 5931 CGI VAL B 364 69.918 -8.724 91.166 1.00 23.08 ATOM 5930 CGI VAL B 364 69.918 -8.724 91.166 1.00 23.09 ATOM 5931 CGI VAL B 364 69.918 -9.609 89.855 1.00 23.08 ATOM 5930 CGI VAL B 364 69.918 -9.609 89.855 1.00 23.08 ATOM 5930 CGI VAL B 364 69.918 -9.609 89.855 1.00 23.08 ATOM 5930 CGI VAL B 366 69.60 80.918 89.859 1.00 23.08 ATOM 5930 CGI VAL B 366 69.60 80.918 89.918 1.00 23.08 ATOM	MOTA	5909	N	LYS	В	362				
ATOM 5912 CB LYS B 362 74.687 -9.706 93.513 1.00 40.24 ATOM 5912 CG LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5914 CE LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5916 C LYS B 362 76.573 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 76.573 -5.680 93.341 1.00 48.87 ATOM 5917 O LYS B 362 72.045 -10.067 91.993 1.00 28.27 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5919 CG GLU B 363 69.509 -8.532 94.390 1.00 36.04 ATOM 5921 CG GLU B 363 69.509 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.509 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.509 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.509 -7.077 93.977 1.00 44.81 ATOM 5925 C GLU B 363 69.509 -9.619 92.111 1.00 30.68 ATOM 5926 CD GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.794 -8.724 91.166 1.00 26.19 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5920 CB LY B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5930 CGI VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5931 CGZ VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5931 CGZ VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5931 CGZ VAL B 364 69.530 -10.083 89.189 1.00 23.49 ATOM 5931 CGZ VAL B 364 69.784 -8.724 91.166 1.00 23.19 ATOM 5931 CGZ VAL B 364 69.784 -8.724 91.166 1.00 23.19 ATOM 5932 C VAL B 364 69.784 -8.724 91.166 1.00 23.19 ATOM 5931 CGZ VAL B 364 69.784 -8.724 91.166 1.00 23.19 ATOM 5931 CGZ VAL B 364 69.794 -9.698 89.852 1.00 23.69 ATOM 5931 CGZ VAL B 364 69.794 -9.698 89.852 1.00 23.09 ATOM 5931 CGZ VAL B 364 69.794 -9.898 89.852 1.00 23.09 ATOM 5931 CGZ VAL B 365 77.297 89.899 89.852 1.00 23.09 ATOM 5931 CGZ VAL B 364 69.794 -9.898 89.852 1.00 23.09 ATOM 5931 CGZ VAL B 365 77.174 1.00 69.899 89.852 1.00 23.09 ATOM 5931 CGZ VAL B 365 77.777 -13.00 09.801 1.00 23.09 ATOM 5931 CGZ VAL B 365 77.777 -13.00 09.801 1.00 23.09 ATOM 5934 CGZ VAL B 365 77.5790 -9.587 87.516 1.00 23.19 ATOM 5942 CGZ VAL B 366 77.517 1.10 68 91.60 1.00 2	ATOM	5910	CA	LYS	В	362	73.864	-9.351	92.272	1.00 36.94
ATOM 5912 CG LYS B 362 76.190 -9.527 93.337 1.00 52.55 ATOM 5914 CE LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5914 CE LYS B 362 76.571 -8.126 92.849 1.00 53.39 ATOM 5915 NZ LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5919 CA GLU B 363 70.245 -9.493 93.435 1.00 28.27 ATOM 5910 CG GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5921 CG GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 69.502 -5.300 95.566 1.00 57.31 ATOM 5924 OE2 GLU B 363 69.502 -5.300 95.566 1.00 57.31 ATOM 5925 C GLU B 363 69.502 -5.300 95.566 1.00 57.31 ATOM 5927 N VAL B 364 69.503 91.944 1.00 30.68 ATOM 5927 N VAL B 364 69.188 -8.724 91.166 1.00 26.19 ATOM 5929 CB VAL B 364 69.188 -8.724 91.166 1.00 26.19 ATOM 5929 CB VAL B 364 69.518 -7.599 88.958 1.00 23.49 ATOM 5921 CG LVAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5931 CG2 VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5932 C VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5932 C VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5933 O VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5933 O VAL B 364 69.503 -10.083 89.144 1.00 23.06 ATOM 5932 C VAL B 364 69.503 -10.083 89.544 1.00 23.06 ATOM 5933 O VAL B 364 69.503 -10.083 89.544 1.00 23.06 ATOM 5934 N LYS B 365 71.296 -11.688 88.594 1.00 23.06 ATOM 5935 C VAL B 364 69.503 -10.083 89.544 1.00 23.06 ATOM 5935 C VAL B 365 71.296 -11.688 88.594 1.00 23.06 ATOM 5939 C C VAS B 365 71.296 -11.688 88.594 1.00 23.06 ATOM 5939 C C VAS B 365 71.296 -11.688 88.94 1.00 23.06 ATOM 5930 C C VAS B 365 71.296 -11.688 88.94 1.00 23.06 ATOM 5930 C C VAS B 365 71.296 -11.688 88.94 1.00 23.06 ATOM 5930 C C VAS B 365 71.596 -10.089 91.241 1.00 30.68 ATOM 5930 C C VAS B 365 71.596 -10.089 91.200 29.44 ATOM 5940 C C ASP B 366 71.577 -13.002 90.801 1.00 22.54 ATOM 5940 C C AS		5911	CB	LYS	В	362	74.687	-9.706	93.513	1.00 40.24
ATOM 5913 CD LYS B 362 76.571 -8.126 92.849 1.00 56.65 ATOM 5914 CE LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 76.553 -5.680 93.341 1.00 32.84 ATOM 5917 O LYS B 362 72.045 -10.867 91.938 1.00 32.84 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5919 CA GLU B 363 70.245 -9.9493 93.435 1.00 35.72 ATOM 5920 CB GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEL GLU B 363 69.502 -7.077 93.977 1.00 48.46 ATOM 5923 OEL GLU B 363 69.502 -7.077 93.977 1.00 48.46 ATOM 5923 OEL GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5925 C GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5925 C GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5929 CB VAL B 364 69.18 8 -8.789 89.852 1.00 24.65 ATOM 5930 CGI VAL B 364 69.18 8 -8.789 89.852 1.00 23.49 ATOM 5931 CGI VAL B 364 69.18 8 -8.789 89.852 1.00 23.49 ATOM 5931 CGI VAL B 364 69.918 8 -8.789 89.852 1.00 23.49 ATOM 5932 C VAL B 364 69.918 69.70 49.85 521 0.00 23.08 ATOM 5932 C VAL B 364 69.918 69.70 49.85 521 0.00 23.09 ATOM 5933 O VAL B 364 69.918 69.70 49.85 521 0.00 23.09 ATOM 5933 O VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 364 69.91 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 365 70.61 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 365 70.61 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 365 70.60 -0.00 88 89.144 1.00 23.09 ATOM 5931 CGI VAL B 365 70.60 -0.00 88 89.91 1.00 23.09 ATOM 5934 CGI LYS B 365 70.60 -0.00 88 8							76 190			
ATOM 5914 CE LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5918 N GLU B 363 70.245 -9.493 93.435 1.00 34.67 ATOM 5919 CA GLU B 363 70.245 -9.493 93.435 1.00 34.67 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5921 CG GLU B 363 69.519 -8.532 94.390 1.00 44.81 ATOM 5922 CD GLU B 363 66.859 -6.186 95.033 1.00 52.14 ATOM 5922 CD GLU B 363 66.859 -6.186 95.033 1.00 52.14 ATOM 5923 OEI GLU B 363 66.859 -6.186 95.033 1.00 52.14 ATOM 5924 OE2 GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5925 CG LU B 363 69.502 -7.077 93.977 1.00 44.86 ATOM 5924 OE2 GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5925 CG LU B 363 69.502 -7.077 93.977 1.00 44.86 ATOM 5924 OE2 GLU B 363 69.502 -7.077 93.977 1.00 44.86 ATOM 5925 CG LU B 363 69.502 -9.619 92.111 1.00 30.68 ATOM 5925 CG LU B 363 69.502 -7.079 99.995 1.00 52.45 ATOM 5925 C UAL B 364 69.504 -9.619 92.111 1.00 30.65 ATOM 5926 C VAL B 364 69.504 -9.619 92.111 1.00 30.45 ATOM 5927 VAL B 364 69.138 -8.789 89.852 1.00 24.55 ATOM 5929 CB VAL B 364 69.138 -8.789 89.852 1.00 24.55 ATOM 5930 CGI VAL B 364 69.550 -7.599 88.958 1.00 23.08 ATOM 5931 CG2 VAL B 364 69.550 -7.599 88.958 1.00 23.08 ATOM 5931 CG2 VAL B 364 69.593 -10.083 89.587 1.00 23.08 ATOM 5935 CB LYS B 365 70.804 1.00 88.542 1.00 23.08 ATOM 5935 CB LYS B 365 70.606 -1.003 89.216 1.00 27.15 ATOM 5935 CB LYS B 365 70.004 -0.008 89.144 1.00 29.18 ATOM 5936 CB LYS B 365 70.004 -0.008 89.144 1.00 29.18 ATOM 5936 CB LYS B 365 70.004 -0.008 89.216 1.00 27.05 ATOM 5937 CB LYS B 365 70.004 -0.008 89.216 1.00 29.18 ATOM 5938 CB LYS B 365 70.004 -0.008 89.216 1.00 29.18 ATOM 5936 CB LYS B 365 70.004 -0.008 89.216 1.00 29.44 ATOM 5940 C LYS B 365 70.004 -0.008 89.216 1.00 29.44 ATOM 5940 C LYS B 365 70.006 -1.007 89.90 90.00 20.0										
ATOM 5916 C LYS B 362 76.553 -5.680 93.341 1.00 48.87 ATOM 5916 C LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.045 -10.867 91.938 1.00 28.27 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5919 CA GLU B 363 71.628 -9.075 93.215 1.00 34.57 ATOM 5919 CA GLU B 363 69.519 -8.532 94.390 1.00 35.72 ATOM 5921 CG GLU B 363 69.502 -7.077 93.435 1.00 34.67 ATOM 5922 CD GLU B 363 69.502 -7.077 93.777 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OEI GLU B 363 67.661 -6.370 95.341 1.00 52.14 ATOM 5923 OEI GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5924 OE2 GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5924 OE2 GLU B 363 69.502 -7.070 95.341 1.00 52.14 ATOM 5924 OE2 GLU B 363 69.502 -7.070 95.341 1.00 48.46 ATOM 5924 OE2 GLU B 363 69.502 -7.070 95.341 1.00 30.65 ATOM 5924 OE2 GLU B 363 69.502 -7.009 92.111 1.00 30.65 ATOM 5925 C GLU B 363 69.502 -7.009 92.111 1.00 30.45 ATOM 5926 O GLU B 363 68.695 -10.530 91.944 1.00 30.45 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5928 CA VAL B 364 69.138 -8.789 89.852 1.00 24.55 ATOM 5931 CG2 VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5931 CG2 VAL B 364 69.536 -7.759 88.958 1.00 23.49 ATOM 5931 CG2 VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5933 C VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5934 N LYS B 365 77.271 -9.689 87.606 1.00 27.15 ATOM 5936 CB LYS B 365 77.594 -11.668 88.594 1.00 23.08 ATOM 5936 CB LYS B 365 77.594 -9.887 87.516 1.00 27.15 ATOM 5940 C LYS B 365 77.791 -9.689 87.606 1.00 27.15 ATOM 5941 C LYS B 365 77.791 -9.689 87.606 1.00 27.35 ATOM 5940 C LYS B 365 77.791 -9.689 87.506 1.00 27.35 ATOM 5940 C LYS B 365 77.791 -9.689 87.506 1.00 25.30 ATOM 5941 C LYS B 366 70.595 -12.831 90.604 1.00 25.30 ATOM 5940 C LYS B 366 70.595 -12.831 90.604 1.00 25.30 ATOM 5940 C LYS B 366 70.595 -12.831 90.604 1.00 25.30 ATOM 5940 C LYS B 366 70.595 -12.831 90.804 1.00 25.46 ATOM 5950 C B ASP B 366 68.600 -15.231 90.809 1.00 27.35 ATOM 5950 C B LEU B 368 66.866 68.700 -13.731 90.886 1.00 22.5	ATOM	5913	CD							
ATOM 5916 C LYS B 362	ATOM	5914	CE	LYS	В	362				
ATOM 5916 C LYS B 362 72.427 -9.826 92.463 1.00 32.84 ATOM 5917 O LYS B 362 72.045 -10.867 91.938 1.00 34.67 ATOM 5918 N GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5919 CA GLU B 363 71.628 -9.075 93.215 1.00 34.67 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5922 CD GLU B 363 68.859 -6.186 95.033 1.00 52.14 ATOM 5923 OEI GLU B 363 67.661 -6.370 95.341 1.00 48.46 ATOM 5923 OEI GLU B 363 67.661 -6.370 95.341 1.00 48.46 ATOM 5924 OE2 GLU B 363 69.502 -5.300 95.566 1.00 57.11 ATOM 5925 C GLU B 363 69.502 -9.619 92.111 1.00 30.68 ATOM 5925 C GLU B 363 69.502 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 30.45 ATOM 5927 N VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5929 CB VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5929 CC VAL B 364 69.556 -7.599 88.958 1.00 24.65 ATOM 5930 CG1 VAL B 364 69.504 -9.770 87.563 1.00 24.65 ATOM 5931 CG2 VAL B 364 69.504 -6.293 89.587 1.00 24.65 ATOM 5932 C VAL B 364 69.504 -6.293 89.587 1.00 24.65 ATOM 5933 O VAL B 364 69.504 -0.083 89.144 1.00 23.08 ATOM 5933 CG2 VAL B 364 69.504 -0.083 89.144 1.00 23.08 ATOM 5933 C VAL B 364 69.500 -10.083 89.144 1.00 23.08 ATOM 5935 CA LYS B 365 70.810 -10.436 89.216 1.00 27.91 ATOM 5937 CG LYS B 365 71.296 -11.668 88.594 1.00 23.06 ATOM 5937 CG LYS B 365 77.891 -9.587 87.516 1.00 27.58 ATOM 5938 CD LYS B 365 77.891 -9.587 87.516 1.00 25.30 ATOM 5941 C LYS B 365 77.296 -9.587 87.516 1.00 25.30 ATOM 5941 C LYS B 365 77.791 -9.587 87.516 1.00 25.30 ATOM 5942 C LYS B 365 77.791 -9.589 87.516 1.00 25.30 ATOM 5944 CA ASP B 366 70.292 -13.337 88.613 1.00 26.10 ATOM 5945 CB ASP B 366 70.292 -13.339 89.276 1.00 25.30 ATOM 5945 CB ASP B 366 70.599 -12.831 90.604 1.00 22.58 ATOM 5945 CB ASP B 366 70.599 -12.831 90.604 1.00 22.595 ATOM 5945 CB ASP B 366 70.599 -12.831 90.604 1.00 22.530 ATOM 5954 CB ASP B 366 70.595 -13.731 92.859 1.00 27.63 ATOM 5955 CB THR B 367 66.7777 -13.002 90.438 1.00 27.63 ATOM 5955 CB THR B 367 66.696 -13.360 90.438 1.00 27.63 ATOM 5955 CB THR B 367 66.696 -13.360 90.438 1.00 27.63 AT	ATOM	5915	NZ	LYS	В	362	76.553	-5.680	93.341	1.00 48.87
ATOM 5918 N GLU B 363 70.245 -10.267 91.938 1.00 28.27 ATOM 5918 N GLU B 363 70.245 -9.493 93.435 1.00 34.67 ATOM 5919 CA GLU B 363 70.245 -9.493 93.435 1.00 35.72 ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.72 ATOM 5921 CG GLU B 363 69.519 -8.532 94.390 1.00 36.72 ATOM 5921 CG GLU B 363 68.859 -6.186 95.033 1.00 52.14 ATOM 5923 OE1 GLU B 363 67.661 -6.370 95.341 1.00 44.81 ATOM 5924 OE2 GLU B 363 69.502 -7.077 93.41 1.00 44.84 ATOM 5924 OE2 GLU B 363 69.502 -7.500 95.566 1.00 57.31 ATOM 5925 C GLU B 363 69.501 -9.619 92.111 1.00 30.45 ATOM 5926 O GLU B 363 69.501 -9.619 92.111 1.00 30.45 ATOM 5927 N VAL B 364 69.501 -9.619 92.111 1.00 30.45 ATOM 5928 CA VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5929 CB VAL B 364 69.5516 -7.599 88.952 1.00 24.65 ATOM 5929 CB VAL B 364 69.5516 -7.599 88.952 1.00 23.49 ATOM 5930 CG1 VAL B 364 68.924 -7.770 87.563 1.00 21.39 ATOM 5931 CG2 VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5931 CG2 VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5933 C VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5933 C VAL B 364 69.500 -10.749 88.542 1.00 23.06 ATOM 5935 CA LYS B 365 70.810 -10.083 89.144 1.00 23.19 ATOM 5935 CA LYS B 365 77.870 -9.587 87.501 1.00 27.15 ATOM 5936 CB LYS B 365 77.870 -9.587 87.506 1.00 27.15 ATOM 5937 CG LYS B 365 77.870 -9.587 87.506 1.00 27.15 ATOM 5937 CG LYS B 365 77.570 -9.587 87.506 1.00 27.15 ATOM 5940 C LYS B 365 77.571 -9.689 87.506 1.00 27.15 ATOM 5941 C LYS B 365 77.571 -9.689 87.506 1.00 22.58 ATOM 5942 C LYS B 365 77.571 -9.689 87.506 1.00 22.53 ATOM 5944 C ASP B 366 70.599 -12.831 90.604 1.00 28.61 ATOM 5945 C B ASP B 366 70.599 -12.831 90.604 1.00 26.81 ATOM 5945 C B ASP B 366 70.599 -12.831 90.604 1.00 22.58 ATOM 5940 C B ASP B 366 70.599 -12.831 90.604 1.00 22.58 ATOM 5950 C B ASP B 366 70.599 -12.831 90.604 1.00 22.595 ATOM 5950 C B ASP B 366 70.509 -12.831 90.604 1.00 22.595 ATOM 5950 C B ASP B 366 70.599 -12.831 90.604 1.00 22.595 ATOM 5950 C B ASP B 366 68.600 -15.231 90.809 1.00 27.63 ATOM 5950 C B ASP B 366 68.600 -15.231 90.809							72.427	-9.826	92.463	1.00 32.84
ATOM 5918 N GLU B 363										
ATOM 5919 CA GLU B 363										
ATOM 5920 CB GLU B 363 69.519 -8.532 94.390 1.00 36.04 ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5924 OE2 GLU B 363 69.502 -5.300 95.566 1.00 57.31 ATOM 5925 C GLU B 363 69.502 -5.300 95.566 1.00 57.31 ATOM 5926 O GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5929 CB VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5930 CGI VAL B 364 69.949 -6.293 89.587 1.00 23.49 ATOM 5930 CGI VAL B 364 68.924 -7.770 87.563 1.00 21.01 ATOM 5931 CG2 VAL B 364 68.924 -7.770 87.563 1.00 21.01 ATOM 5932 C VAL B 364 68.691 -10.749 88.542 1.00 23.08 ATOM 5932 C VAL B 364 68.691 -10.749 88.542 1.00 23.08 ATOM 5935 CA LYS B 365 70.810 -10.436 89.144 1.00 23.08 ATOM 5935 CA LYS B 365 70.810 -10.436 88.594 1.00 23.05 ATOM 5935 CA LYS B 365 72.821 -11.758 88.704 1.00 29.18 ATOM 5937 CG LYS B 365 72.821 -11.758 88.704 1.00 29.18 ATOM 5937 CG LYS B 365 75.790 -9.587 87.516 1.00 23.05 ATOM 5938 CD LYS B 365 75.790 -9.587 87.516 1.00 23.05 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 32.58 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 77.271 -9.689 87.606 1.00 25.30 ATOM 5942 C LYS B 366 70.666 -12.879 89.276 1.00 25.30 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 28.29 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 28.29 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 28.29 ATOM 5945 CB ASP B 366 70.559 -12.831 90.809 1.00 27.00 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.00 ATOM 5955 CG THR B 367 66.365 -777 -13.002 90.801 1.00 28.63 ATOM 5955 CG THR B 367 66.365 -770 -11.688 89.990 1.00 27.63 ATOM 5950 CB LEU B 368 66.691 -13.361 88.092 1.00 28.99 ATOM 5955 CG THR B 367 66.265 -777 -13.002 90.801 1.00 28.99 ATOM 5950 CB LEU B 368 66.691 -13.361 88.092 1.00 28.99 ATOM 5950 CB LEU B 368 66.66.962 -13.361 88.092 1.00 28.99 ATOM 5950 CB LEU B 368 66.691 -13	ATOM		N							
ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5922 CD GLU B 363 68.859 -6.186 95.033 1.00 52.14 ATOM 5923 OE1 GLU B 363 67.661 -6.370 95.341 1.00 48.46 ATOM 5926 C GLU B 363 69.562 -5.300 95.566 1.00 57.31 ATOM 5926 C GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5927 N VAL B 364 69.501 -9.619 92.111 1.00 30.45 ATOM 5927 N VAL B 364 69.501 -9.619 92.111 1.00 30.45 ATOM 5929 CB VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5929 CB VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5930 CG1 VAL B 364 68.924 -7.770 87.563 1.00 21.01 ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5932 C VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5933 C VAL B 364 68.691 -10.749 88.542 1.00 23.08 ATOM 5933 C VAL B 364 68.691 -10.749 88.542 1.00 23.08 ATOM 5933 C VAL B 364 68.691 -10.749 88.542 1.00 23.08 ATOM 5935 CA LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5937 CG LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5937 CG LYS B 365 72.821 -11.758 88.704 1.00 29.18 ATOM 5939 CE LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5939 C LYS B 365 75.790 -9.587 87.516 1.00 29.18 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 32.58 ATOM 5940 NZ LYS B 365 70.2821 -11.758 88.704 1.00 22.30 ATOM 5940 NZ LYS B 365 70.282 -13.837 88.613 1.00 26.19 ATOM 5941 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 28.63 ATOM 5946 CG ASP B 366 70.559 -12.831 90.604 1.00 28.63 ATOM 5950 CB LYS B 365 70.666 -12.879 89.276 1.00 29.44 ATOM 5955 CB THR B 367 66.365 -13.3938 91.347 1.00 28.63 ATOM 5955 CG THR B 367 66.365 -13.3938 91.347 1.00 28.63 ATOM 5955 CG THR B 367 66.800 -15.231 90.809 1.00 27.63 ATOM 5955 CG THR B 367 66.800 -15.231 90.809 1.00 27.63 ATOM 5955 CG THR B 367 66.800 -15.231 90.809 1.00 27.63 ATOM 5955 CG THR B 367 66.865 -13.3990 86.785 1.00 28.44 ATOM 5955 CG THR B 367 66.865 -13.3990 86.785 1.00 28.44 ATOM 5955 CG THR B 367 66.865 -13.3990 86.785 1	ATOM	5919	CA	GLU	В	363	70.245	-9.493	93.435	1.00 35.72
ATOM 5921 CG GLU B 363 69.502 -7.077 93.977 1.00 44.81 ATOM 5923 OE1 GLU B 363 67.661 -6.370 95.341 1.00 48.46 ATOM 5924 OE2 GLU B 363 69.562 -5.300 95.566 1.00 57.31 ATOM 5926 O GLU B 363 69.562 -5.300 95.566 1.00 57.31 ATOM 5926 O GLU B 363 68.695 -10.530 91.944 1.00 30.45 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5928 CA VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5929 CB VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5930 CG1 VAL B 364 69.138 -8.789 89.852 1.00 23.49 ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5933 O VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5933 O VAL B 364 69.049 -6.293 89.587 1.00 23.19 ATOM 5933 O VAL B 364 69.049 -6.293 89.587 1.00 23.19 ATOM 5935 CA LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5935 CA LYS B 365 71.296 -11.668 88.594 1.00 22.18 ATOM 5937 CG LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5939 CE LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.18 ATOM 5939 CE LYS B 365 77.2821 -11.758 88.704 1.00 29.18 ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 32.58 ATOM 5940 NZ LYS B 365 70.2821 -11.758 88.704 1.00 22.530 ATOM 5942 C LYS B 365 70.2821 -11.758 88.154 1.00 22.530 ATOM 5942 C LYS B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5946 CG ASP B 366 70.559 -12.831 90.604 1.00 28.29 ATOM 5950 CB ASP B 366 70.577 -13.669 93.311 1.00 26.61 ATOM 5954 CB ASP B 366 70.577 -13.669 93.311 1.00 22.546 ATOM 5955 CB THR B 367 66.365 -13.938 91.347 1.00 28.63 ATOM 5955 CG THR B 367 66.365 -13.909 86.785 1.00 28.99 ATOM 5955 CG THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CG THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CG THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CG THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CG THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CG THR B 367 66.962 -13.361 88.99	MOTA	5920	CB	GLU	В	363	69.519	-8.532	94.390	1.00 36.04
ATOM 5922 CD GLU B 363 68.859 -6.186 95.033 1.00 52.14 ATOM 5923 OEI GLU B 363 67.661 -6.370 95.341 1.00 48.46 ATOM 5924 OE2 GLU B 363 69.562 -5.300 95.566 1.00 57.31 ATOM 5925 C GLU B 363 69.562 -5.300 95.566 1.00 57.31 ATOM 5926 O GLU B 363 68.695 -10.530 91.944 1.00 30.68 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5929 CB VAL B 364 69.536 -7.599 88.958 1.00 24.65 ATOM 5930 CG1 VAL B 364 69.536 -7.599 88.958 1.00 24.65 ATOM 5931 CG2 VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5932 C VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5933 O VAL B 364 69.530 -10.083 89.144 1.00 23.08 ATOM 5934 N LYS B 365 70.810 -10.436 89.216 1.00 23.06 ATOM 5935 CA LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5936 CB LYS B 365 72.821 -11.758 88.704 1.00 28.61 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 23.58 ATOM 5939 CE LYS B 365 75.790 -9.587 87.606 1.00 29.13 ATOM 5940 NZ LYS B 365 70.282 -13.837 88.613 1.00 22.58 ATOM 5940 NZ LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5940 NZ LYS B 366 70.566 -12.879 89.276 1.00 25.30 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5940 NZ LYS B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5954 CB ASP B 366 70.577 -13.002 90.801 1.00 26.37 ATOM 5954 CB ASP B 366 70.577 -13.669 93.311 1.00 22.94 ATOM 5955 CB ASP B 366 70.577 -13.669 93.311 1.00 22.94 ATOM 5950 N THR B 367 65.776 -13.699 93.311 1.00 22.95 ATOM 5955 CB THR B 367 65.771 -11.068 91.656 1.00 23.33 ATOM 5955 CC THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CC THR B 367 66.962 -13.361 88.992 1.00 27.35 ATOM 5955 CC THR B 367 66.962 -13.361 88.992 1.00 27.363 ATOM 5955 CC THR B 367 66.962 -13.361 88.9							69 502	-7.077	93.977	1.00.44.81
ATOM 5923 OE1 GLU B 363 67.661 -6.370 95.341 1.00 48.46 ATOM 5924 CE2 GLU B 363 69.562 -5.300 95.566 1.00 57.31 ATOM 5925 C GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5926 O GLU B 363 68.695 -10.530 91.944 1.00 30.45 ATOM 5927 N VAL B 364 69.138 -8.724 91.166 1.00 26.19 ATOM 5928 CA VAL B 364 69.138 -8.724 91.166 1.00 24.65 ATOM 5929 CB VAL B 364 69.138 -8.724 91.166 1.00 23.49 ATOM 5930 CG1 VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5932 C VAL B 364 68.924 -7.770 87.563 1.00 21.01 ATOM 5933 O VAL B 364 68.691 -10.749 88.542 1.00 23.06 ATOM 5933 O VAL B 364 68.691 -10.749 88.542 1.00 23.06 ATOM 5935 CA LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5936 CB LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5938 CD LYS B 365 72.821 -11.758 88.704 1.00 28.61 ATOM 5939 CE LYS B 365 75.074 -10.768 88.154 1.00 23.25 ATOM 5939 CE LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5939 CE LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 77.271 -9.689 87.606 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.03 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.03 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.07 ATOM 5945 CB ASP B 366 70.557 -13.669 93.311 1.00 26.37 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5945 CB ASP B 366 68.600 -15.231 90.809 1.00 27.00 ANDM 5950 O ASP B 366 68.600 -15.231 90.809 1.00 27.00 ANDM 5950 CB ASP B 366 68.600 -15.231 90.809 1.00 27.00 ANDM 5955 CB THR B 367 66.962 -13.361 89.994 1.00 23.33 ATOM 5955 CB THR B 367 66.962 -13.361 88.992 1.00 23.33 ATOM 5955 CB LEU B 368 67.760 -12.070 85.955 1										
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ATOM 5925 C GLU B 363 69.501 -9.619 92.111 1.00 30.68 ATOM 5926 C GLU B 363 68.695 -10.530 91.944 1.00 30.465 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5928 CA VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5929 CB VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5930 CGI VAL B 364 69.949 -6.293 89.587 1.00 23.08 ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5932 C VAL B 364 69.530 -10.083 89.144 1.00 23.08 ATOM 5933 O VAL B 364 69.530 -10.083 89.144 1.00 23.06 ATOM 5933 O VAL B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5935 CA LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5936 CB LYS B 365 71.296 -11.668 88.594 1.00 23.06 ATOM 5937 CG LYS B 365 72.821 -11.758 88.704 1.00 29.18 ATOM 5939 CE LYS B 365 75.7074 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.617 88.030 1.00 30.27 ATOM 5939 CE LYS B 365 75.074 -10.768 88.154 1.00 22.58 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5942 C LYS B 365 70.282 -13.837 89.266 1.00 29.13 ATOM 5944 CA ASP B 366 69.963 -13.938 91.347 1.00 26.81 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 69.963 -13.938 91.347 1.00 28.29 ATOM 5946 CG ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 69.63 -13.938 91.347 1.00 28.29 ATOM 5946 CG ASP B 366 67.0.05 -13.731 92.859 1.00 29.44 ATOM 5950 CA ASP B 366 68.487 -14.110 90.986 1.00 27.35 ATOM 5950 CA ASP B 366 68.487 -14.110 90.986 1.00 27.63 ATOM 5950 CA THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CG THR B 367 66.777 -13.080 90.438 1.00 27.63 ATOM 5955 CG THR B 367 66.962 -13.361 88.994 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.994 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.990 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.990 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.990 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.990 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.	MOTA				В	363				
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ATOM 5926 O GLU B 363 68.695 -10.530 91.944 1.00 30.45 ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5928 CA VAL B 364 69.784 -7.599 88.952 1.00 24.65 ATOM 5929 CB VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5931 CC2 VAL B 364 69.536 -7.599 88.958 1.00 23.08 ATOM 5931 CC2 VAL B 364 69.536 -7.599 88.958 1.00 23.08 ATOM 5931 CC2 VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5933 O VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5933 N LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5934 N LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5935 CA LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5937 CG LYS B 365 72.821 -11.758 88.704 1.00 28.61 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5942 C LYS B 365 70.866 -12.879 89.276 1.00 25.30 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5943 C ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5946 CG ASP B 366 70.559 -12.831 90.604 1.00 26.37 ATOM 5946 CG ASP B 366 70.559 -12.831 90.869 1.00 29.44 ATOM 5946 CG ASP B 366 70.559 -12.831 90.869 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5945 CG ASP B 366 71.557 -13.669 93.311 1.00 25.26 ATOM 5945 CG ASP B 366 71.557 -13.669 93.311 1.00 25.26 ATOM 5950 CG ASP B 366 68.800 -11.786 89.890 1.00 27.00 ATOM 5955 CG THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG THR B 367 66.962 -13.3761 89.994 1.00 25.46 ATOM 5955 CG THR B 367 66.962 -13.361 88.994 1.00 27.33 ATOM 5955 CG THR B 367 66.962 -13.361 88.994			C	GLU	В	363	69.501	-9.619	92.111	1.00 30.68
ATOM 5927 N VAL B 364 69.784 -8.724 91.166 1.00 26.19 ATOM 5928 CA VAL B 364 69.138 -8.789 89.852 1.00 24.65 ATOM 5929 CB VAL B 364 69.536 -7.599 88.958 1.00 23.49 ATOM 5930 CG1 VAL B 364 68.924 -7.770 87.563 1.00 21.01 ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5932 C VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5933 O VAL B 364 68.691 -10.749 88.542 1.00 23.06 ATOM 5933 O VAL B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5935 CA LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5936 CB LYS B 365 72.821 -11.758 88.704 1.00 29.18 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5939 CE LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 25.30 ATOM 5942 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.81 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 28.29 ATOM 5946 CG ASP B 366 70.559 -12.831 90.804 1.00 28.29 ATOM 5946 CG ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 70.155 -13.731 92.859 1.00 29.44 ATOM 5947 OD1 ASP B 366 70.155 -13.731 92.859 1.00 26.37 ATOM 5949 C ASP B 366 70.155 -13.731 92.859 1.00 26.37 ATOM 5949 C ASP B 366 68.000 -15.231 90.869 1.00 28.61 ATOM 5950 O ASP B 366 66.860 -15.231 90.869 1.00 28.61 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.962 -11.683 90.359 1.00 22.94 ATOM 5955 CG2 THR B 367 66.962 -11.683 90.359 1.00 22.94 ATOM 5955 CG2 THR B 367 66.962 -13.361 88.992 1.00 22.94 ATOM 5955 CG2 THR B 367 66.962 -13.361 88.992 1.00 23.33 ATOM 5959 CA LEU B 368 66.962 -13.361 88.992 1.00 23.33 ATOM 5959 CA LEU B 368 66.962 -13.360 85.785 1.00 28.99 ATOM 5955 CG2 THR B 367 66.962 -13.361 88.992 1.00 23.33 ATOM 5959 CA LEU B 368 66.962 -13.360 85.785 1.00 28.99 ATOM 5959 CA LEU B 368 66.962 -13.360 85.964 1.00 24.48 ATOM 5959 CA LEU B 368 66.962 -13.360 85.964 1.00 22.94 ATOM 5959 CA LEU B 368 66.962 -13.360								-10.530	91.944	1 00 30.45
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ATOM 5931 CG2 VAL B 364 69.049 -6.293 89.587 1.00 23.08 ATOM 5932 C VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5934 N LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5935 CA LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5936 CB LYS B 365 72.821 -11.758 88.704 1.00 28.61 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5939 CE LYS B 365 75.074 -10.768 88.154 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5949 C ASP B 366 70.557 -13.669 93.311 1.00 26.37 ATOM 5949 C ASP B 366 70.557 -13.669 93.311 1.00 26.37 ATOM 5949 C ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5949 C ASP B 366 70.559 -12.831 90.869 1.00 29.44 ATOM 5949 C ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5949 C ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5949 C ASP B 366 71.557 -13.669 93.311 1.00 26.37 ATOM 5949 C ASP B 366 71.557 -13.669 93.311 1.00 28.63 ATOM 5950 O ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 C ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG THR B 367 65.726 -11.683 90.359 1.00 22.94 ATOM 5955 CG THR B 367 65.726 -11.683 90.359 1.00 22.94 ATOM 5955 CG THR B 367 65.726 -11.786 89.890 1.00 22.94 ATOM 5955 CG THR B 367 65.726 -11.786 89.890 1.00 22.94 ATOM 5955 CG THR B 367 65.726 -11.786 89.890 1.00 22.94 ATOM 5955 CG THR B 367 65.726 -11.786 89.890 1.00 22.94 ATOM 5950 CB LEU B 368 66.857 -13.990 86.785 1.00 28.99 1.00 27.67 ATOM 5950 CB LEU B 368 66.857 -13.990 86.785 1.00 28.99 1.00 27.67 ATOM 5950 CB LEU B 368 67.			CG1	VAL	В	364	68.924	-7.770	87.563	1.00 21.01
ATOM 5932 C VAL B 364 69.530 -10.083 89.144 1.00 23.19 ATOM 5933 O VAL B 364 68.691 -10.749 88.542 1.00 23.06 ATOM 5934 N LYS B 365 70.810 -10.436 89.216 1.00 27.15 ATOM 5935 CA LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5936 CB LYS B 365 72.821 -11.758 88.704 1.00 29.18 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 22.29 ATOM 5946 CG ASP B 366 70.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5948 OD2 ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 66.365 -13.002 90.801 1.00 28.61 ATOM 5950 C ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5952 CA THR B 367 66.365 -13.002 90.801 1.00 28.61 ATOM 5955 CG THR B 367 66.777 -13.002 90.801 1.00 28.63 ATOM 5955 CG THR B 367 66.777 -13.002 90.801 1.00 27.00 ATOM 5955 CG THR B 367 66.365 -13.008 90.438 1.00 27.35 ATOM 5955 CG THR B 367 66.726 -11.683 90.359 1.00 27.65 ATOM 5955 CG THR B 367 66.777 -13.002 90.801 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CG THR B 368 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CG THR B 367 65.726 -11.683 90.399 1.00 27.65 ATOM 5955 CG THR B 367 65.726 -11.685 89.094 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5956 CG LEU B 368 66.962 -13.361 88.092 1.00 22.94 ATOM 5956 CG LEU B 368 67.70 -13.900 85.								-6 -293	89.587	1 00 23 08
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ATOM 5935 CA LYS B 365 71.296 -11.668 88.594 1.00 29.18 ATOM 5936 CB LYS B 365 72.821 -11.758 88.704 1.00 28.61 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5939 CE LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 29.13 ATOM 5941 C LYS B 365 70.666 -12.879 87.516 1.00 29.13 ATOM 5942 C LYS B 365 70.666 -12.879 87.276 1.00 25.30 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.81 ATOM 5944 CA ASP B 366 69 963 -13.938 91.347 1.00 26.81 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 25.37 ATOM 5948 OD2 ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.05 ATOM 5955 CB THR B 367 66.365 -13.080 90.438 1.00 27.05 ATOM 5955 CB THR B 367 66.365 -13.080 90.438 1.00 27.05 ATOM 5955 CB THR B 367 66.365 -13.080 90.438 1.00 27.05 ATOM 5955 CB THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CB THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CB THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CB THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CB THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CB THR B 367 66.962 -13.361 88.092 1.00 22.94 ATOM 5955 CB LEU B 368 66.865 -13.990 86.785 1.00 28.99 ATOM 5955 CB LEU B 368 66.7719 -13.256 85.759 1.00 27.67 ATOM 5950 CB LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5950 CB LEU B 368 66.962 -13.390 86.785 1.00 28.99 ATOM 5961 CB LEU B 368 67.060 -12.070 85.046 1.00 28.49 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 28.49 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.0	ATOM	5934	N	LYS	В	365	70.810	-10.436	89.216	1.00 27.15
ATOM 5936 CB LYS B 365 72.821 -11.758 88.704 1.00 28.61 ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5944 CA ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69 963 -13.938 91.347 1.00 28.29 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5949 C ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5954 OG1 THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CG2 THR B 367 66.962 -13.361 89.890 1.00 22.94 ATOM 5955 CG2 THR B 367 66.962 -13.361 89.890 1.00 22.94 ATOM 5955 CG2 THR B 367 66.962 -13.361 89.890 1.00 22.94 ATOM 5955 CG2 THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5956 CB LEU B 368 66.857 -13.990 86.785 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 23.33 ATOM 5950 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5950 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5950 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5950 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 36		5935	CA	LYS	В	365	71.296	-11.668	88.594	1.00 29.18
ATOM 5937 CG LYS B 365 73.554 -10.617 88.030 1.00 30.27 ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69 963 -13.938 91.347 1.00 28.29 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5950 O ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5951 N THR B 367 66.365 -13.080 90.438 1.00 27.00 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.365 -11.088 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.365 -11.088 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.962 -13.361 89.994 1.00 25.46 ATOM 5957 O THR B 367 66.962 -13.361 89.994 1.00 24.48 ATOM 5959 CA LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368							72 821	-11.758	88.704	1.00 28.61
ATOM 5938 CD LYS B 365 75.074 -10.768 88.154 1.00 32.58 ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69.963 -13.938 91.347 1.00 28.29 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 OD2 ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5946 OD2 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 665.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.63 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CG THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5955 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5950 CB LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5950 CB LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5961 CG LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 36										
ATOM 5939 CE LYS B 365 75.790 -9.587 87.516 1.00 29.13 ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5944 CA ASP B 366 70 559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69.963 -13.838 91.347 1.00 28.29 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 OD2 ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5950 O ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5951 N THR B 367 66.365 -13.080 90.438 1.00 27.00 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.265 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.262 -13.68 99.890 1.00 22.94 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.68 89.890 1.00 22.94 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 36				-						
ATOM 5940 NZ LYS B 365 77.271 -9.689 87.606 1.00 35.17 ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5946 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5954 OG1 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 66.197 -13.786 89.890 1.00 27.63 ATOM 5955 CG2 THR B 367 66.197 -13.786 89.890 1.00 22.94 ATOM 5955 CG THR B 367 66.197 -13.786 89.890 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5955 CG LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5950 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B	ATOM	5938	CD	LYS	В	365				
ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70.559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69 963 -13.938 91.347 1.00 28.29 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.365 -13.782 89.890 1.00 22.94 ATOM 5955 C THR B 367 66.197 -13.782 89.890 1.00 22.94 ATOM 5955 C THR B 367 66.197 -13.782 89.890 1.00 22.94 ATOM 5955 C THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 36	MOTA	5939	CE	LYS	В	365	75.790		87.516	
ATOM 5941 C LYS B 365 70.666 -12.879 89.276 1.00 25.30 ATOM 5942 C LYS B 365 70.282 -13.837 88.613 1.00 26.81 ATOM 5943 N ASP B 366 70 559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69 963 -13.938 91.347 1.00 28.29 ATOM 5946 CG ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5955 CG2 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 C THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 C THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 C THR B 367 66.197 -13.782 89.094 1.00 24.48 ATOM 5955 C THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 36	MOTA	5940	NZ.	LYS	В	365	77.271	-9.689	87.606	1.00 35.17
ATOM 5942 C LYS B 365								-12.879	89.276	1.00 25.30
ATOM 5943 N ASP B 366 70 559 -12.831 90.604 1.00 26.10 ATOM 5944 CA ASP B 366 69 963 -13.938 91.347 1.00 28.29 ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.002 90.801 1.00 28.63 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.35 ATOM 5954 OG1 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5955 CG THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 24.48 ATOM 5959 CA LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47										
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ATOM 5945 CB ASP B 366 70.105 -13.731 92.859 1.00 29.44 ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5950 O ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 27.00 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 66.5923 -12.607 84.195 1.00 32.45	MOTA		N							
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ATOM 5946 CG ASP B 366 71.557 -13.669 93.311 1.00 32.95 ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5950 O ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 66.197 -13.782 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 66.962 -13.361 88.092 1.00 24.48 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 66.5923 -12.607 84.195 1.00 32.45	ATOM	5945	CB	ASP	В	366	70.105	-13.731	92.859	
ATOM 5947 OD1 ASP B 366 72.446 -14.099 92.551 1.00 26.37 ATOM 5948 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5957 O THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 66.923 -12.607 84.195 1.00 32.45							71.557	-13.669	93.311	1.00 32.95
ATOM 5946 OD2 ASP B 366 71.811 -13.216 94.442 1.00 35.26 ATOM 5949 C ASP B 366 68.487 -14.110 90.986 1.00 28.61 ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.771 -11.068 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 66.962 -13.361 88.092 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 66.923 -12.607 84.195 1.00 32.45										
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ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.726 -11.683 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 22.94 ATOM 5957 O THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 66.923 -12.607 84.195 1.00 32.45	MOTA	5948	OD2							
ATOM 5950 O ASP B 366 68.000 -15.231 90.869 1.00 27.00 ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.771 -11.068 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 66.923 -12.607 84.195 1.00 32.45	MOTA	5949	С	ASP	В	366				
ATOM 5951 N THR B 367 67.777 -13.002 90.801 1.00 28.63 ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.771 -11.068 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45		5950	0				68.000	-15.231	90.869	1.00 27.00
ATOM 5952 CA THR B 367 66.365 -13.080 90.438 1.00 27.35 ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.771 -11.068 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45									90.801	1.00 28.63
ATOM 5953 CB THR B 367 65.726 -11.683 90.359 1.00 27.63 ATOM 5954 OG1 THR B 367 65.771 -11.068 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45										
ATOM 5954 OG1 THR B 367 65.771 -11.068 91.656 1.00 28.12 ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45										
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ATOM 5955 CG2 THR B 367 64.280 -11.786 89.890 1.00 22.94 ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45	MOTA	5954	OG1	THR	В	367				
ATOM 5956 C THR B 367 66.197 -13.782 89.094 1.00 25.46 ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45							64.280	-11.786	89.890	1.00 22.94
ATOM 5957 O THR B 367 65.389 -14.693 88.964 1.00 24.48 ATOM 5958 N LEU B 368 66.962 -13.361 88.092 1.00 23.33 ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45										
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ATOM 5959 CA LEU B 368 66.857 -13.990 86.785 1.00 28.99 ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45	ATOM	5958	N	LEU	3	368				
ATOM 5960 CB LEU B 368 67.719 -13.256 85.759 1.00 27.67 ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45		5959	CA	LEU	3	368				•
ATOM 5961 CG LEU B 368 67.060 -12.070 85.046 1.00 29.47 ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45									85.759	1.00 27.67
ATOM 5962 CD1 LEU B 368 65.923 -12.607 84.195 1.00 32.45										
ATCM 3302 CD 200 200 200 200 200 200 200 200 200 20										
ATOM 5963 CD2 LEU B 368 66.546 -11.027 86.043 1.00 19.43	ATOM									
	ATOM	5963	CD2	LEU	В	368	66.546	-11.027	80.043	1.00 19.43

ATOM	5964	С	LEU	3	368	6	57.262	-15.454	86.888	1.00 32.40
ATOM	5965	0	LET.	3	368	(56.726	-16.309	86.179	1.00 31.80
ATOM	5966	N			369			-15.735	87.774	1.00 33.59
		-								
MOTA	5967	CA	GLU		369			-17.101	88.003	1.00 39.68
MOTA	5968	CB	GLU	В	369	(59.736	-17.141	89.082	1.00 42.61
ATOM	5969	CG	GLU		369	•	71 . 133	-17.138	88.537	1.00 50.65
MOTA	5970	CD	GLU		369			-18.443	87.842	1.00 55.81
MOTA	5971	OE1	GLU		369	-	72.589	-18.561	87.299	1.00 57.42
ATOM	5972	OE2	GLU	В	369	•	70.610	-19.353	87.841	1.00 58.37
MOTA	5973	С	GLU		369		57 479	-17.954	88.442	1.00 34.94
								-18.974	87.827	
MOTA	5974	0	GLU							1.00 32.71
ATOM	5975	N	LYS	3	370	- (56.805	-17.541	89.512	1.00 34.92
ATOM	5976	CA	LYS	В	370	(65.656	-18.295	89.993	1.00 35.12
ATOM	5977	CB	LYS			,	55 061	-17.679	91.268	1.00 37.39
			LYS					-17.916	92.532	1.00 44.70
ATOM	5978	CG								
MOTA	5979	CD	LYS		370			-16.741	92.892	1.00 48.10
ATOM	5980	CE	LYS	В	370	•	55.956	-15.537	93.346	1.00 47.82
ATOM	5981	NZ	LYS	В	370	(56.804	-14.387	93.786	1.00 45.41
	5982	C	LYS					-18.375	88.930	1.00 33.21
ATOM										
MOTA	5983	0	LYS					-19.409	88.773	1.00 29.52
ATOM	5984	N	ALA	9	371	(54.390	-17.288	88.191	1.00 31.62
ATOM	5985	CA	ALA	В	371	í	53.368	-17.274	87.153	1.00 37.19
ATOM	5986	CB	ALA					-15.938		1.00 35.65
MOTA	5987	С	àLÀ		371			-18.431	86.181	1.00 37.79
ATOM	5988	0	ALA	В	371	(52.627	-19.137	85.838	1.00 34.46
ATOM	5989	И	LYS	В	372		54.810	-18.644	85.759	1.00 40.10
ATOM	5990	CA	LYS		372			-19.698	84.792	1.00 40.46
ATOM	5991	С	LYS					-21.066	85.348	1.00 43.15
ATOM	5992	0	LYS	3	372	(54.757	-22.053	84.591	1.00 43.57
ATOM	5993	CB	LYS	В	372	(66.654	-19.694	84.517	1.00 40.51
ATOM	5994	CG	LYS		372			-18.925	83.248	1.00 20.00
MOTA	5995	CD	LYS					-19.390	82.635	1.00 20.00
ATOM	5996	CE	$\Gamma \lambda Z$	В	372	(58.544	-20.907	82.706	1.00 20.00
MOTA	5997	NZ	LYS	В	372.	(59.814	-21:354	82.116	1.00 20.00
ATOM	5998	N	ALA		373		54.412	-21.159	86.624	1.00 47.80
								-22.425	87.239	1.00 49.71
MOTA	5999	CA	ALA							
ATOM	6000	CB	AIA		373			-22.639	88.546	1.00 48.25
ATOM	6001	C	ALA	В	373	(52.515	-22.443	87.494	1.00 53.38
ATOM	6002	0	ALA		373	í	51.844	-23.313	86.903	1.00 58.01
ATOM	6003	OXT	ALA		373			-21.589	88.269	1.00 55.13
HETATM		ZN	233	C	1		19.660	9.211		1.00 32.54
HETATM	2992	J 1	TSA	D	2	4	47.669	8.189	109.464	1.00 28.76
HETATM	2993	02	TSA	D	2	4	49.952	6.981	108.340	1.00 25.81
HETATM		03	TSA		2		52.458	5.101	101.667	1.00 36.93
					2					1.00 31.21
HETATM		N1	TSA	_	2		47.800	7.789	108.131	
HETATM	2996	N2	TSA	D	2		53.013	-1.329	101.259	1.00 30.57
HETATM	2997	Cl	TSA	D	2		51.859	2.799	101.610	1.00 28.47
HETATM		C2	TSA		2		50.907		101.666	1.00 25.57
HETATM		C3	TSA		2		51.241		101.551	1.00 21.68
					-					
HETATM		C4	TSA		2		52.626		101.366	1.00 23.11
HETATM	3001	C5	TSA	D	2		3.589	1.080	101.303	1.00 25.02
HETATM	3002	C6	TSA	ח	2		53.218	2.408	101.418	1.00 29.24
HETATM			TSA		2		51.572		101.734	1.00 32.98
		C?								
HETATM		C8	TSA		2		50.108		101.996	1.00 29.05
HETATM	3005	C9	TSA	D	2	-	50.052	5.421	103.338	1.00 28.13
HETATM		C10	TSA		2		19.060	5.357	104.279	1.00 25.99°
HETATM			TSA		2		19.315		105.504	1.00 32.05
					ź					
HETATM			TSA		2 2		18.515		106.595	1.00 27.37
HETATM	3009	C13	TSA	D	2	4	18.855		107.756	1.00 29.02
HETATM			TSA		2	2	19.680		100.864	1.00 30.21
HETATM			TSA		2		7.776		104.132	1.00 30.60
					2					
HETATM		C17	TSA		2		4.438		101.139	1.00 23.45
HETATM	3013	C16	TSA	D	2		52.044	~2.416	101.316	1.00 23.15
HETATM	6004	ZN	ZN	Ξ	1		52.949	1.842	85.681	1.00 28.19
HETATM		01	TSA		2		50.964	0.911	85.428	1.00 24.72
									86.654	1.00 30.24
HETATM	. 2006	02	TSA	r	2	-	51.255	3.324	.00.004	1.00 30.24

					_		51.569	6 612	02 210	1 00 37 00
HETATM	6007	03	TSA	F	2			6.512	93.219	1.00 27.89
HETATM	6008	N1	TSA	F	2 ·		50.347	1.221	86.634	1.00 27.23
HETATM		N2	TSA		2		47.061	11.139	93.713	1.00 16.24
								7.579		
HETATM	6010	C1	TSA	F	2		49.443		93.304	1.00 27.18
HETATM	6011	C2	TSA	F	2		48.035	7.529	93.267	1.00 25.98
			TSA		2		47.227	8.657	93.398	1.00 24.59
HETATM		C3		-						
HETATM	6013	C4	TSA	F	2		47.837	9.971	93.583	1.00 25.75
HETATM	6014	C5	TSA	F	2		49.274	10.017	93.626	1.00 26.53
							50.041	8.869	93.495	1.00 28.36
HETATM		C6	TSA		. 3					
HETATM	6016	C7	TSA	F	2		50.349	6.405	93.167	1.00 25.27
HETATM		C8	TSA	F	2	_	49.716	5.006	92.905	1.00 24.18
						•		4.552		1.00 27.20
HETATM	6018	C9	TSA	F	2		50.134		91.518	
HETATM	6019	C10	TSA	F	2		49.419	3.807	90.616	1.00 30.21
HETATM		C11	TSA	r	2		50.118	3.553	89.327	1.00 27.18
HETATM		C12	TSA	F	2		49.762	2.624	88.409	1.00 23.47
HETATM	6022	C13	TSA	F	2		50.529	2.462	87.170	1.00 28.28
HETATM		C14	TSA		2		50.208	4.019	93.994	1.00 28.83
HETATM		C15	TSA	F	2		48.013	3.270	90.863	1.00 26.16
HETATM	6025	C17	TSA	F	2		47.699	12.456	93.883	1.00 27.37
HETATM			TSA		2		45.610	11.107	93.679	1.00 25.36
REIAIN	0020									
HETATM		OH2	WAT	G	1		61.391	6.723	88.062	1.00 12.93
HETATM	6028	OH2	WAT	G	2		55.595	-4.443	83.558	1.00 7.53
HETATM			WAT		3		58.656	12 731	106.749	1.00 12.33
HETATM		OH2	TAW	G	4		46.347		111.460	1.00 14.54
HETATM	6031	OH2	WAT	G	5		45.523	13.627	76.224	1.00 11.14
HETATM			WAT		6		24.466	-6.064	85.688	1.00 22.41
REIAIII	0032									1.00 21.99
HETATM	6033		TAW		7			-17.745	80.769	
HETATM	6034	OH2	TAW	G	8		56.344	-15.640	87.809	1.00 26.67
HETATM			WAT		9		48 554	-14.901	83.717	1.00 23.94
HETATM			WAT		10		57.540		122.771	1.00 26.96
HETATM	6037	OH2	WAT-	G	11		59.414	-2.497	84.029	1.00 22.51
HETATM	6038		WAT		12		31.671	18.074	114.616	1.00 32.15
									117.140	1.00 19.47
HETATM	6039		WAT		13		62.335			
HETATM	6040	OH2	WAT	G	14		45.565	9.469	79.366	1.00 18.81
HETATM			WAT		15		43.311	8.237	79.508	1.00 26.11
							46.628	13.883		1.00 24.28
HETATM		OH2	WAT		16					
HETATM	6043	OH2	WAT	G	17		40.672	2.507	81.576	1.00 18.30
HETATM		OH2	WAT	G	18		61.830	10.923	77.709	1.00 22.27
							57.813	0.831		1.00 24.68
HETATM			WAT		19					
HETATM	6046	OH2	TAW	G	20		48.885	5.660	77.823	1.00 30.00
HETATM		OH2	WAT	G	21		36.382	-8.352	88.841	1.00 17.32
HETATM			WAT		22		39 316	-10.091	86.422	1.CO 27.38
HETATM	6049	OH2	WAT	G	23		54.802	-3.446	90.346	1.00 21.73
HETATM	6050	OH2	WAT	G	24		49.292	12.112	140.537	1.00 34.17
HETATM			WAT		25		56.747	8.830	60.744	1.00 40.67
								9.79		1.00 27.92
HETATM		OH2	WAT	G	26		41.952	9.19	100.118	
HETATM	6053	OH2	WAT	G	27		31.268	2.8C;	106.695	1.00 24.31
HETATM			WAT		28		68.342	17.79:	111.076	1.00 30.93
							72.651	-6.985	94.845	1.00 29.34
HETATM			WAT		29					
HETATM	6056	OH2	WAT	G	30		39.287	9.257	85.623	1.00 22.61
HETATM		OH2	WAT	G	31		61.221	14.462	87.256	1.00 29.85
							38.167	22.692	107.435	1.00 36.40
HETATM			WAT		32					
HETATM	6059	OH2	WAT	G	33		64.657	-2.682	96.225	1.30 18.70
HETATM		CH2	WAT	G	34		44.059	-2.698°	99.805	1.00 30.02
							38.480	4.763	93.051	1.00 28.03
HETATM	9091		TAW		35					
HETATM	6062	OH2	TAK!	G	36		57.899	7.654	112.976	1.00 26.46
HETATM	6063		TAW		37		57.092	3.145	93.309	1.00 22.31
								-1.400	118.878	1.00 30.83
HETATM		OH2			38		52.194			
HETATM	6065	OH2	WAT	G	39		69.400	14.200	123.379	1.00 30.98
HETATM	5055		WAT		40		24.024	6.540	79.852	1.00 38.13
DEINIM	0000							-10.880	89.402	1.00 29.24
HETATM	6067		WAT		41		46.657			
HETATM	6068	OH2	WAT	G	42		24.976	13.489		1.00 46.34
HETATM	6069		WAT		43		46.533	-4.511	94.759	1.00 23.11
UTIVIM	6000						51.448	13.833	86.306	1.00 27.08
HETATM	6070		WAT		44					1 00 42 42
HETATM	6071	OH2	WAT	G	45		70.578	4.183		1.00 42.42
HETATM	6072		WAT		46		53.938	-9.936	116.021	1.00 38.97
TETATA				9					•	

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HETATM	6073	OH2	JAT	G	47		38.458	-0.443	63.035	1.00 28.35
HETATM	6071	043	HAT	~	48		54.786	7 030	107.466	1.00 34.46
HETATM	6075	OH2	WAT	G	49	!	50.823	36.521	114.809	1.00 40.51
					-					
HETATM			WAT		50		33.963		68.080	1.00 39.11
HETATM	6077	OH2	WAT	G	51	•	71.328	-14.321	86.007	1.00 33.30
HETATM	6078	OHZ	WAT	G	52	,	53.272	10.210	79.836	1.00 35.75
HETATM	6079	OH2	WAT	G	53		59.263	-12.096	94.306	1.00 29.57
HETATM	6080	OHZ	WAT	G	54	4	16.041	10.641	76.561	1.00 27.97
HETATM	6081	OH2	WAT	C	55		16 614	-13.620	89.775	1.00 24.25
HETATM	6082	OH2.	WAT	G	56		76.600	0.622	89.097	1.00 29.19
HETATM	6083	OHO	WAT	C	57		53.555	6.439	79.089	1.00 34.05
HETATM	6084	OH2	WAT	G	58		71.301	11.026	83.310	1.00 35.02
HETATM	6085	OH2	WAT	C	59		28.188	-9.956	81.594	1.00 33.21
HETATM	6086	OH2	TAK	Ģ	60		53.084	20.992	98.483	1.00 27.64
HETATM	6087	OH2	WAT	G	61		59.484	8.630	93.423	1.00 30.30
HETATM	6088	OH2	WAT	G	62		26.195	-3.809	95.805	1.00 33.04
HETATM	6089	OH2	WAT	G	63		26.095	-0.121	89.620	1.00 37.39
HETATM	6090	OH2	TAW	G	64	•	17.100	-6.141	109.711	1.00 20.88
HETATM	6091	OH2	WAT	G	65		23.273	0.731	92.275	1.00 30.38
HETATM	6092	OH2	TAN	G	66	4	15.340	-24.751	72.694	1.00 37.51
HETATM	6093	OH2	WAT	G	57	•	33.754	16.234	111.676	1.00 34.63
HETATM	6094	OH2	WAT	G	68		52.831	19.209	126.276	1.00 47.11
HETATM	6095	OH2	WAT	G	69		50.218	16.953	111.099	1.00 26.24
HETATM	6096	OH2	WAT	G	70	4	14.791	5.844	70.857	1.00 24.95
HETATM	6097	OH2	WAT	G	71		19 517	-18.731	82.921	1.00 29.48
HETATM	6038	OH2	TAW	G	72		76.379	10.131	116.550	1.00 48.70
HETATM	6099	OH2	HAT	G	73	•	30.214	-8.086	87.873	1.00 46.35
-										
HETATM		OHZ	WAT	G	74	- 4	15.320	12.061	80.458	1.00 30.80
HETATM	6101	OH2	WAT	G	75	•	72.881	5.360	86.249	1.00 29.04
HETATM	0T02	OHZ	WAT	G	76		39.6/4	-23.046	87.252	1.00 41.96
HETATM	6103	OH2	WAT	G	77		10.619	7.921	100.345	1.00 26.45
HETATM	PT04	OHZ	TAW	G	78	•	11.000	-19.477	70.073	1.00 36.27
HETATM	6105	OH2	WAT	G	79	4	16.408	-6.539	92.717	1.00 25.78
HETATM	PIND	OHZ	TAW	G	80	-	55.743	-12:230	81.646	1.00 28.34
HETATM	6107	OH2	WAT	G	81		28.268	8.745	121.961	1.00 41.15
HETATM		Onz	TAV	G	82		8.843	3.154	71.986	1.00 32.34
HETATM	6109	OH2	WAT	G	83	9	52.125	-11.158	85.150	1.00 24.14
							75.374	-1.773	92.264	
HETATM		Onz	TAW	G	84					1.00 26.12
HETATM	6111	OH2	HAT	G	85	4	16.957	12.230	142.271	1.00 37.07
HETATM		OH2			86		3.789	9.551	64.329	1.00 55.58
HETATM	6113	OH2	WAT	G	87	6	50.672	21.185	72.215	1.00 58.55
HETATM	6114		WAT		88		6.547	9.505	82.064	1.00 31.10
HETATM	6115	OH2	WAT	G	89		26.366	-0.876	92.250	1.00 29.70
HETATM	6116	OHO	WAT	0	90		7 604	-16.583	80.808	1.00 32.85
HETATM	6117	OH2	WAT	G	91	7	3.910	1.899	82.068	1.00 42.95
HETY TM	6118	OHO	WAT	C	92		0.032	4 106	117.380	1.00 30.05
		_								
HETIM	6119	OH2	WAT	G	93	2	6.774	-9.492	83.952	1.00 43.59
HETAIM	5120	OH2	WAT	C	94	- 4	12.714	-0.637	113.787	1.00 40.17
HETATM	9171	OH2	:JAT	G	95	=	7.966	7.989	134.170	1.00 47.82
HETATM	6122	OH2	WAT	G	96	•	4.478	-3.550	119.086	1.00 36.62
HETATM	6123	CHZ	WAT	G	97		3.065	11.696	101.718	1.00 41.62
HETATM	6124	OH2	WAT	G	98	•	8.286	-23.645	68.207	1.00 45.98
				_						
HETATM	0172	OH2	WAT	G	99		4.855	-9.614	121.975	1.00 34.57
HETATM	6126	OH2	WAT	G	100	-	7.408	-3.352	57.145	1.00 42.14
HETATM	017.		WAT				3.590		123.667	1.00 33.87
HETATM	6128	OH2	::'AT	G	102	4	8.129	-23.143	72.392	1.00 30.23
							-			
HETATM			WAT				2.834	6.913	76.094	1.00 52.01
HETATM	6130	OH2	WAT	G	104	7	4.566	6.529	73.089	1.00 36.29
		_							_	
MTATER	غدده		WAT				1.588	20.869	67.459	1.00 36.85
HETATM	6132	OH2	MAT	G	106	2	8.160	18.020	129.379	1.00 42.87
									57.603	
HETATM			WAT					-11.452		1.00 43.62
MTATER	6134	OH2	TAK	G	108	4	4.717	-8.605	93.281	1.00 41.95
								-11.900	94.019	1.00 35.71
HETATM			TAU							
HETATM	6136	OH2	TAV:	G	110	4	19.561	22.763	100.800	1.00 35.40
			TAW				5.853		124.536	1.00 56.20
HETATM										
	6138	OH2	WAT	G	112	5	4.383	8.930	136.095	1.00 36.40
HETATM										

HETATM	6139	OH2 WAT	3 113	33.114	1.764 67.443	
HETATM		OH2 WAT	3 114	42.618	-4.357 102.345	1.00 39.18
HETATM		OH2 WAT		53.605	-10.816 66.281	1.00 31.62
				72 410	-1.010 90.400	1.00 34.72
HETATM		OH2 WAT			-1.010 90.400	
HETATM	6143	OH2 WAT	3 117		3.789 110.221	1.00 35.69
HETATM	6144	CH2 WAT	3 118	31.474	19.159 112.425	
HETATM		CH2 WAT		39.749	-0.616 132.457	1.00 37.43
	_					1.00 40.80
HETATM	6146	OH2 WAT		44.921	1.089 137.137 7.617 75.105	
HETATM	6147	OH2 WAT	G 121	31.081	7.617 75.105	1.00 40.86
HETATM	6148	OH2 WAT	3 122	35.554	12.017 105.965	1.00 33.58
		OH2 WAT			-23.534 70.872	1.00 38.10
HETATM				31.000	1.992 73.813	1.00 33.97
HETATM		OH2 WAT				
HETATM	6151	OH2 WAT	G 125	55.761	10.285 101.654	1.00 47.66
HETATM		OH2 WAT	G 126	30.596	12.964 133.642	1.00 37.98
HETATM		OH2 WAT		59 611	5.347 136.114	1.00 46.39
				24.190	12.964 133.642 5.347 136.114 12.220 124.679	
HETATM		OH2 WAT		21.150		
HETATM	6155	OH2 WAT		70.078	4.455 86.283	
HETATM	6156	OH2 WAT	G 130	57.882	-4.314 125.597	1.00 41.40
HETATM		OH2 WAT		45.838	-20.690 65.884	1.00 35.98
				47.574	3.186 79.027	1.00 36.67
HETATM		OH2 WAT		47.374		
HETATM	6159	OH2 WAT	G 133	46.856	-18.901 62.295	1.00 45.40
HETATM	6160	OH2 WAT	G 134	40.164	5.047 95.358	1.00 31.38
HETATM		OH2 WAT		27.268	-0.405 122.461	1.00 38.16
					-20.155 66.212	
HETATM		OH2 WAT				
HETATM	6163	OH2 WAT			-10.534 103.626	
HETATM		OH2 WAT	G 138	31.633	25.030 106.499	
HETATM		OH2 WAT		79.029	-7.518 93.606	1.00 40.55
				. 68.597		
HETATM	6166	OH2 WAT				
HETATM	6167	OH2 WAT	G 141	64.263	8.524 113.832	
HETATM	6168	OH2 WAT	G 143	49.387	-24.485 70.152	1.00 34.07
HETATM		OH2 WAT			-3.854 83.604	1.00 32.22
				42 360	-0.710 61.686	
HETATM		OH2 WAT				
HETATM	6171	OH2 WAT			-3.304 65.685	1.00 35.42
HETATM	6172	OH2 WAT	G 147	31.506	3.409 89.579	1.00 39 <i>.</i> 86
HETATM		OH2 WAT		34.963	10.688 91.806	1.00 31.12 "
					-15.085 96.769	1.00 46.65
HETATM		OH2 WAT			2 201 131 273	1.00 39.22
HETATM	6175	OH2 WAT		34.695	2.391 131.273	
HETATM	6176	OH2 WAT	G 151	40.348	1.395 61.905	1.00 34.09
HETATM		OH2 WAT		66.912	17.666 127.489	1.00 45.19
				31.096		1.00 43.45
HETATM		OH2 WAT				1.00 28.86
HETATM	6179	OH2 WAT		28.074		
HETATM	6180	OH2 WAT	G 155	63.586		
HETATM	6181	OH2 WAT		54.145	-22.222 88.415	1.00 40.92
		OH2 WAT	C 157			1.00 33.69
HETATM		ORZ WAI	0 157		20	
HETATM		OH2 WAT			0 700 101 311	1 00 31 00
HETATM			G 158	58.832	9.798 101.311	1.00 31.00
	6184			37.701	9.798 101.311 -5.528 119.322	1.00 31.00 1 00 45.00
нетатм		OH2 WAT	G 159		9.798 101.311 -5.528 119.322	1.00 31.00 1 00 45.00 1 00 38.43
HETATM	6185	OH2 WAT	G 159 G 160	37.701 43.599	9.798 101.311 -5.528 119.322 13.442 131.274	1.00 31.00 1 00 45.00
HETATM	6185 6186	OH2 WAT OH2 WAT	G 159 G 160 G 161	37.701 43.599 23.540	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83
HETATM HETATM	6185 6186 6187	OH2 WAT OH2 WAT OH2 WAT	G 159 G 160 G 161 G 162	37.701 43.599 23.540 59.915	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92
HETATM	6185 6186 6187	OH2 WAT OH2 WAT OH2 WAT OH2 WAT	G 159 G 160 G 161 G 162 G 163	37.701 43.599 23.540 59.915 51.265	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25
HETATM HETATM HETATM	6185 6186 6187 6188	OH2 WAT OH2 WAT OH2 WAT OH2 WAT	G 159 G 160 G 161 G 162 G 163	37.701 43.599 23.540 59.915	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30
HETATM HETATM HETATM HETATM	6185 6186 6187 6188 6188	OH2 WAT OH2 WAT OH2 WAT OH2 WAT OH2 WAT OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164	37.701 43.599 23.540 59.915 51.265 58.109	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30
HETATM HETATM HETATM HETATM HETATM	6185 6186 6187 6188 6189 6190	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165	37.701 43.599 23.540 59.915 51.265 58.109 46.553	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53
HETATM HETATM HETATM HETATM HETATM HETATM	6185 6186 6187 6188 6189 6190 6191	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91
HETATM HETATM HETATM HETATM HETATM HETATM	6185 6186 6187 6188 6189 6190 6191	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13
HETATM HETATM HETATM HETATM HETATM HETATM HETATM	6185 6186 6187 6188 6189 6190 6191 6192	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99
HETATM HETATM HETATM HETATM HETATM HETATM HETATM HETATM HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99
HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193 6194	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 169	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05
HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193 6194 6195	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 169 G 170	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63
HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193 6194 6195	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 169 G 170	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69
HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193 6194 6195 6196	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 169 G 170 G 171	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41
HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193 6194 6195 6196	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 169 G 170 G 171 G 172	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41
HETATM	1 6185 1 6186 1 6187 1 6188 1 6190 1 6191 1 6192 1 6193 1 6194 1 6195 1 6196 1 6197 1 6198	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 169 G 170 G 171 G 172 G 173	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.166 19.700	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49
HETATM	1 6185 1 6186 1 6187 1 6188 1 6190 1 6191 1 6192 1 6193 1 6194 1 6195 1 6197 1 6198	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 170 G 171 G 172 G 173 G 174	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.166 19.700 55.875	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49 1.00 38.63
HETATM	1 6185 1 6186 1 6187 1 6188 1 6190 1 6191 1 6192 1 6193 1 6194 1 6195 1 6197 1 6198	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 170 G 171 G 172 G 173 G 174	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.166 19.700 55.875 61.874	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176 8.432 91.682	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49 1.00 38.63 1.00 40.08
HETATM	6185 6186 6187 6188 6189 6190 6191 6192 6193 6194 6195 6197 6198 6199 6200	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 170 G 171 G 172 G 173 G 174 G 175	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.166 19.700 55.875	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176 8.432 91.682	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49 1.00 38.63 1.00 40.08 1.00 32.57
HETATM	6185 6186 6187 6188 6189 6190 6191 6193 6194 6195 6197 6198 6199 6200 6201	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 168 G 170 G 171 G 172 G 173 G 174 G 175 G 176	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.527 67.527 67.527 67.527	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176 8.432 91.682 -6.815 121.530	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49 1.00 38.63 1.00 40.08 1.00 32.57
HETATM	6185 6186 6187 6188 6189 6190 6191 6193 6194 6195 6197 6196 6197 6198 6199 6200 6201 6202	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 170 G 171 G 172 G 173 G 174 G 175 G 176 G 177	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.527 67.527 67.527 67.527 67.527 67.706 19.700 55.875 61.874 36.771 63.224	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176 8.432 91.682 -6.815 121.530 7.776 89.317	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49 1.00 38.63 1.00 40.08 1.00 32.57 1.00 29.83
HETATM	1 6185 1 6186 1 6187 1 6188 1 6190 1 6191 1 6192 1 6193 1 6194 1 6195 1 6197 1 6198 1 6200 1 6201 1 6202 1 6203	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 170 G 171 G 173 G 174 G 175 G 176 G 177 G 178	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.527 67.166 19.700 55.875 61.874 36.771 63.224 29.606	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176 8.432 91.682 -6.815 121.530 7.776 89.317 15.345 132.470	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 53.49 1.00 53.49 1.00 38.63 1.00 40.08 1.00 32.57 1.00 29.83 1.00 47.28
HETATM	1 6185 1 6186 1 6187 1 6188 1 6190 1 6191 1 6192 1 6193 1 6194 1 6195 1 6197 1 6198 1 6200 1 6201 1 6202 1 6203	OH2 WAT	G 159 G 160 G 161 G 162 G 163 G 164 G 165 G 166 G 167 G 170 G 171 G 173 G 174 G 175 G 176 G 177 G 178	37.701 43.599 23.540 59.915 51.265 58.109 46.553 55.706 67.146 47.445 65.193 36.176 70.527 67.527 67.527 67.527 67.527 67.527 67.706 19.700 55.875 61.874 36.771 63.224	9.798 101.311 -5.528 119.322 13.442 131.274 -1.137 96.111 -4.318 110.873 -8.264 60.546 7.024 98.294 18.195 74.179 -21.025 92.515 -1.958 109.704 -3.047 134.746 5.304 63.562 8.979 102.024 5.797 70.886 8.735 74.628 9.630 81.850 11.277 87.176 8.432 91.682 -6.815 121.530 7.776 89.317 15.345 132.470	1.00 31.00 1 00 45.00 1 00 38.43 1 00 51.83 1.00 41.92 1.00 31.25 1.00 46.30 1.00 37.53 1.00 43.91 1.00 43.13 1.00 27.99 1.00 36.05 1.00 39.63 1.00 44.69 1.00 51.41 1.00 53.49 1.00 38.63 1.00 40.08 1.00 32.57 1.00 29.83 1.00 47.28

HETAIM 6205 ORL WAT G 180 HETAIM 6207 ORL WAT G 181 HETAIM 6207 ORL WAT G 182 HETAIM 6207 ORL WAT G 182 HETAIM 6208 ORL WAT G 183 S7.121-11.129 126.206 i.00 45.78 HETAIM 6209 ORL WAT G 183 S7.121-11.129 126.206 i.00 45.78 HETAIM 6210 ORL WAT G 183 S7.121-11.129 126.206 i.00 45.78 HETAIM 6211 ORL WAT G 185 S6.880 2.453 95.969 1.00 29.12 HETAIM 6212 ORL WAT G 188 HETAIM 6213 ORL WAT G 188 HETAIM 6213 ORL WAT G 188 HETAIM 6213 ORL WAT G 188 HETAIM 6214 ORL WAT G 189 HETAIM 6215 ORL WAT G 190 HETAIM 6215 ORL WAT G 190 HETAIM 6216 ORL WAT G 190 HETAIM 6217 ORL WAT G 191 HETAIM 6216 ORL WAT G 191 HETAIM 6217 ORL WAT G 192 28.337 12.268 12.285 1.00 32.16 HETAIM 6218 ORL WAT G 192 RETAIM 6219 ORL WAT G 193 29.786 24.957 122.112 1.00 36.62 HETAIM 6210 ORL WAT G 193 29.786 24.957 122.112 1.00 36.63 HETAIM 6221 ORL WAT G 195 HETAIM 6221 ORL WAT G 195 HETAIM 6221 ORL WAT G 196 18.852 3.461 96.101 1.00 38.05 HETAIM 6221 ORL WAT G 197 42.852 3.461 96.101 1.00 36.63 HETAIM 6222 ORL WAT G 196 HETAIM 6221 ORL WAT G 197 42.852 3.461 96.101 1.00 38.35 HETAIM 6222 ORL WAT G 196 HETAIM 6221 ORL WAT G 197 42.852 1.00 29.11 1.00 36.63 HETAIM 6222 ORL WAT G 196 HETAIM 6221 ORL WAT G 197 42.852 1.00 29.11 1.00 36.66 HETAIM 6222 ORL WAT G 198 HETAIM 6220 ORL WAT G 199 43.514 -20.514 111.706 1.00 47.70 HETAIM 6221 ORL WAT G 201 HETAIM 6222 ORL WAT G 202 HETAIM 6226 ORL WAT G 203 HETAIM 6226 ORL WAT G 203 HETAIM 6227 ORL WAT G 203 HETAIM 6228 ORL WAT G 203 HETAIM 6229 ORL WAT G 203 HETAIM 6230 ORL WAT G 203 HETAIM 6230 ORL WAT G 203 HETAIM 6231 ORL WAT G 203 HETAIM 6230 ORL WAT G 203 HETAIM 6240 ORL WAT G 203 HETAIM 6250 ORL WAT G 203 HETAIM 6250 ORL WAT G 203 HETAIM 6260 ORL WAT G									
HETAIM 6206 ORE NAT G 181 43.734 -15.681 61.135 1.00 34.24 HETAIM 6209 ORE NAT G 182 42.283 15.251 91.437 1.00 37.96 HETAIM 6209 ORE WAT G 183 57.121 -11.129 126.206 1.00 45.78 HETAIM 6209 ORE WAT G 184 50.011 -19.367 92.127 1.00 36.55 HETAIM 6210 ORE NAT G 186 50.80 2.453 95.969 1.00 39.12 HETAIM 6211 ORE NAT G 186 56.880 2.453 95.969 1.00 32.68 HETAIM 6212 ORE NAT G 186 26.556 14.125 125.052 1.00 32.68 HETAIM 6212 ORE NAT G 188 23.516 4.964 81.599 1.00 42.16 HETAIM 6213 ORE NAT G 188 23.516 4.964 81.599 1.00 42.16 HETAIM 6214 ORE NAT G 189 55.017 14.964 62.948 1.00 50.18 HETAIM 6216 ORE NAT G 189 55.017 14.964 62.948 1.00 50.18 HETAIM 6216 ORE NAT G 191 44.466 -10.386 91.144 1.00 36.62 HETAIM 6218 ORE NAT G 193 29.786 24.957 122.112 .000 42.05 HETAIM 6219 ORE NAT G 193 29.786 24.957 122.112 .000 42.05 HETAIM 6210 ORE NAT G 193 48.852 3.461 96.101 1.00 42.05 HETAIM 6220 ORE NAT G 193 48.852 3.461 96.101 1.00 42.05 HETAIM 6222 ORE NAT G 195 41.881 11.318 92.011 1.00 42.05 HETAIM 6222 ORE NAT G 195 41.881 11.318 92.011 1.00 42.05 HETAIM 6222 ORE NAT G 196 26.612 -10.229 111.600 40.05 48.86 HETAIM 6222 ORE NAT G 197 42.312 -32.500 76.629 1.00 48.86 HETAIM 6222 ORE NAT G 198 25.864 12.756 121.410 1.00 48.15 HETAIM 6222 ORE NAT G 198 25.864 12.756 121.410 1.00 48.86 HETAIM 6223 ORE NAT G 198 25.864 12.756 121.410 1.00 48.86 HETAIM 6223 ORE NAT G 200 74.273 -13.079 95.699 1.00 44.89 HETAIM 6223 ORE NAT G 201 74.273 -13.079 95.699 1.00 44.89 HETAIM 6223 ORE NAT G 202 67.164 -12.771 74.705 1.00 45.81 HETAIM 6230 ORE NAT G 203 67.664 -12.771 74.705 1.00 45.81 HETAIM 6230 ORE NAT G 204 55.566 -3.576 122.243 1.00 48.89 HETAIM 6232 ORE NAT G 205 60.00 34.998 98.393 1.00 49.15 HETAIM 6233 ONE NAT G 205 60.00 34.998 98.393 1.00 49.15 HETAIM 6233 ONE NAT G 205 60.00 34.998 98.393 1.00 49.15 HETAIM 6235 ONE NAT G 206 60.00 49.48 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.48 76 207 60.00 49.4	HETATM	6205	OH2	WAT G	180			88.356	
HETAIM 6207 ONL WAT G 182 42.283 15.251 91.437 1.00 37.96 HETAIM 6208 ONL WAT G 183 57.121 -11.129 126.206 i.00 45.78 HETAIM 6210 ONL WAT G 186 56.880 2.453 95.969 1.00 35.05 HETAIM 6211 ONL WAT G 186 56.880 2.453 95.969 1.00 39.12 HETAIM 6212 ONL WAT G 188 56.880 2.453 95.969 1.00 32.68 HETAIM 6213 ONL WAT G 188 23.516 4.964 81.599 1.00 45.67 HETAIM 6213 ONL WAT G 188 23.516 4.964 81.599 1.00 45.67 HETAIM 6213 ONL WAT G 189 55.017 14.964 62.948 1.00 57.04 HETAIM 6215 ONL WAT G 190 33.371 13.710 105.640 1.00 37.04 HETAIM 6215 ONL WAT G 191 44.666 -10.386 91.144 1.00 37.04 HETAIM 6216 ONL WAT G 192 28.437 22.668 121.285 1.00 88.69 HETAIM 6217 ONL WAT G 193 29.786 24.957 122.112 1.00 42.05 HETAIM 6219 ONL WAT G 193 29.786 24.957 122.112 1.00 42.05 HETAIM 6220 ONL WAT G 195 41.681 11.318 92.011 1.00 83.05 HETAIM 6221 ONL WAT G 195 41.681 11.318 92.011 1.00 42.05 HETAIM 6222 ONL WAT G 195 41.681 11.318 92.011 1.00 43.09 HETAIM 6222 ONL WAT G 196 46.812 -10.229 111.631 1.00 47.70 HETAIM 6222 ONL WAT G 197 42.432 -23.250 76.629 1.00 48.86 HETAIM 6222 ONL WAT G 199 43.514 -20.514 111.00 10.0 47.07 HETAIM 6225 ONL WAT G 200 57.164 -17.4705 1.00 43.09 HETAIM 6226 ONL WAT G 201 59.962 24.881 103.984 1.00 43.09 HETAIM 6226 ONL WAT G 203 28.708 9.211 79.238 1.00 43.53 HETAIM 6226 ONL WAT G 203 28.708 9.211 79.238 1.00 43.53 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 43.53 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.89 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 28.708 9.211 79.238 1.00 44.99 HETAIM 6230 ONL WAT G 203 44			OH2	WAT G	181	43.734	-15.681	61.135	1.00 34.24
HETATM 6209 OHZ WAT G 183				_		42.283	15.251	91.437	1.00 37.96
HETAITM 6210 OH2 WAT G 184 S0.011 -19.367 92.127 1.00 36.55 HETAITM 6210 OH2 WAT G 185 56.880 2.453 95.969 1.00 32.68 HETAITM 6212 OH2 WAT G 186 26.556 14.125 125.052 1.00 32.68 HETAITM 6213 OH2 WAT G 187 24.631 20.230 122.650 1.00 45.67 HETAITM 6213 OH2 WAT G 188 24.531 20.230 122.650 1.00 45.67 HETAITM 6213 OH2 WAT G 189 55.017 14.964 62.948 1.00 50.18 HETAITM 6215 OH2 WAT G 190 31.371 13.710 105.640 1.00 37.04 HETAITM 6216 OH2 WAT G 191 44.666 -10.386 91.144 1.00 36.62 HETAITM 6217 OH2 WAT G 193 29.786 24.957 122.122 1.00 38.19 HETAITM 6219 OH2 WAT G 193 29.786 24.957 122.122 1.00 22.05 HETAITM 6210 OH2 WAT G 195 41.681 11.318 92.011 1.00 32.60 HETAITM 6221 OH2 WAT G 195 41.681 11.318 92.011 1.00 32.60 HETAITM 6222 OH2 WAT G 197 42.432 -23.250 76.629 1.00 48.35 HETAITM 6223 OH2 WAT G 198 43.514 -20.514 111.00 47.07 HETAITM 6225 OH2 WAT G 199 43.514 -20.514 111.00 10.00 46.80 HETAITM 6226 OH2 WAT G 200 57.647 -12.717 74.705 1.00 44.99 HETAITM 6226 OH2 WAT G 200 57.962 -1.576 122.243 -1.00 43.98 HETAITM 6227 OH2 WAT G 200 26.706 -1.277 74.705 -1.00 44.99 HETAITM 6230 OH2 WAT G 200 26.706 -1.277 74.705 -1.00 33.53 HETAITM 6230 OH2 WAT G 200 26.706 -1.277 74.705 -1.00 34.99 HETAITM 6230 OH2 WAT G 200 26.706 -1.277 74.705 -1.00 34.99 HETAITM 6230 OH2 WAT G 200 26.706 -1.277 74.705 -1.00 34.99 HETAITM 6230 OH2 WAT G 200 50.706 16.208 87.557 1.00 41.26 HETAITM 6231 OH2 WAT G 200 50.706 16.208 87.557 1.00 41.95 HETAITM 6230 OH2 WAT G 204 50.706 -1.576 -1.576 -1.576 -1.00 -1.00 -1.00 HETAITM 6230 OH2 WAT G 204 50.506 -1.576 -1.278 -1.00 -1.00 -1.00 -1.00						57.121	-11.129	126.206	1.00 45.78
HETATH 6210									1.00 36.55
HETATH 6211 OH2 WAT G 186 HETATH 6212 OH2 WAT G 187 HETATH 6212 OH2 WAT G 188 HETATH 6213 OH2 WAT G 188 HETATH 6213 OH2 WAT G 189 HETATH 6213 OH2 WAT G 189 HETATH 6214 OH2 WAT G 189 HETATH 6215 OH2 WAT G 189 HETATH 6216 OH2 WAT G 191 HETATH 6216 OH2 WAT G 191 HETATH 6217 OH2 WAT G 191 HETATH 6217 OH2 WAT G 193 HETATH 6218 OH2 WAT G 193 HETATH 6218 OH2 WAT G 193 HETATH 6219 OH2 WAT G 193 HETATH 6219 OH2 WAT G 194 HETATH 6210 OH2 WAT G 193 HETATH 6210 OH2 WAT G 195 HETATH 6210 OH2 WAT G 195 HETATH 6221 OH2 WAT G 195 HETATH 6221 OH2 WAT G 195 HETATH 6221 OH2 WAT G 197 HETATH 6222 OH2 WAT G 197 HETATH 6222 OH2 WAT G 197 HETATH 6223 OH2 WAT G 197 HETATH 6224 OH2 WAT G 197 HETATH 6225 OH2 WAT G 198 HETATH 6226 OH2 WAT G 199 HETATH 6227 OH2 WAT G 199 HETATH 6228 OH2 WAT G 197 HETATH 6228 OH2 WAT G 199 HETATH 6226 OH2 WAT G 199 HETATH 6227 OH2 WAT G 199 HETATH 6228 OH2 WAT G 199 HETATH 6220 OH2 WAT G 199 HETATH 6221 OH2 WAT G 199 HETATH 6221 OH2 WAT G 199 HETATH 6222 OH2 WAT G 200 HETATH 6226 OH2 WAT G 200 HETATH 6227 OH2 WAT G 200 HETATH 6227 OH2 WAT G 201 HETATH 6228 OH2 WAT G 203 HETATH 6230 OH2 WAT G 204 HETATH 6230 OH2 WAT G 204 HETATH 6231 OH2 WAT G 204 HETATH 6231 OH2 WAT G 204 HETATH 6231 OH2 WAT G 205 HETATH 6232 OH2 WAT G 205 HETATH 6231 OH2 WAT G 206 HETATH 6233 OH2 WAT G 207 HETATH 6231 OH2 WAT G 208 HETATH 6233 OH2 WAT G 208 HETATH 6233 OH2 WAT G 208 HETATH 6234 OH2 WAT G 207 HETATH 6235 OH2 WAT G 208 HETATH 6236 OH2 WAT G 207 HETATH 6237 OH2 WAT G 208 HETATH 6237 OH2 WAT G 207 HETATH 6237 OH2 WAT G 208 HETATH 6238 OH2 WAT G 207 HETATH 6239 OH2 WAT G 208 HETATH 6230 OH2 WAT G 207 HETATH 6231 OH2 WAT G 208 HETATH 6236 OH2 WAT G 207 HETATH 6237 OH2 WAT G 208 HETATH 6238 OH2 WAT G 208 HETATH 6237 OH2 WAT G 208 HETATH 6238 OH2 WAT G 207 HETATH 6239 OH2 WAT G 207 HETATH 6239 OH2 WAT G 207 HETATH 6230 OH2 WAT G 208 HETATH 6231 OH2 WAT G 208 HETATH 6230 OH2 WA									1.00 39.12
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HETATH 6217 OH2 WAT G 192									
HETATH 6218 OH2 WAT G 193									
HETATM 6219 ONL WAT G 194 HETATM 6220 ONL WAT G 195 HETATM 6221 ONL WAT G 196 HETATM 6222 ONL WAT G 197 HETATM 6222 ONL WAT G 197 HETATM 6223 ONL WAT G 197 HETATM 6223 ONL WAT G 198 HETATM 6223 ONL WAT G 198 HETATM 6224 ONL WAT G 198 HETATM 6225 ONL WAT G 198 HETATM 6226 ONL WAT G 198 HETATM 6226 ONL WAT G 200 HETATM 6226 ONL WAT G 200 HETATM 6227 ONL WAT G 201 HETATM 6227 ONL WAT G 201 HETATM 6228 ONL WAT G 201 HETATM 6228 ONL WAT G 202 HETATM 6229 ONL WAT G 203 HETATM 6229 ONL WAT G 203 HETATM 6229 ONL WAT G 203 HETATM 6229 ONL WAT G 204 HETATM 6230 ONL WAT G 205 HETATM 6231 ONL WAT G 205 HETATM 6231 ONL WAT G 205 HETATM 6231 ONL WAT G 207 HETATM 6232 ONL WAT G 207 HETATM 6233 ONL WAT G 207 HETATM 6234 ONL WAT G 208 HETATM 6235 ONL WAT G 208 HETATM 6236 ONL WAT G 208 HETATM 6236 ONL WAT G 208 HETATM 6236 ONL WAT G 208 HETATM 6237 ONL WAT G 208 HETATM 6236 ONL WAT G 208 HETATM 6236 ONL WAT G 208 HETATM 6237 ONL WAT G 208 HETATM 6238 ONL WAT G 208 HETATM 6239 ONL WAT G 208 HETATM 6236 ONL WAT G 207 HETATM 6237 ONL WAT G 208 HETATM 6236 ONL WAT G 208 HETATM 6237 ONL WAT G 207 HETATM 6238 ONL WAT G 208 HETATM 6239 ONL WAT G 210 HETATM 6239 ONL WAT G 211 HETATM 6239 ONL WAT G 212 HETATM 6230 ONL WAT G 213 HETATM 6230 ONL WAT G 213 HETATM 6230 ONL WAT G 214 HETATM 6230 ONL WAT G 215 HETATM 6230 ONL WAT G 216 HETATM 6230 ONL WAT G 217 HETATM 6231 ONL WAT G 218 HETATM 6230 ONL WAT G 217 HETATM 6231 ONL WAT G 218 HETATM 6230 ONL WAT G 213 HETATM 6230 ONL WAT G 214 HETATM 6230 ONL WAT G 215 HETATM 6230 ONL WAT G 215 HETATM 6230 ONL WAT G 216 HETATM 6230 ONL WAT G 217 HETATM 6230 ONL WAT G 218 HETATM 6240 ONL WAT G 218 HETATM 6250 ONL WAT G 218 HETATM 6261 ONL WAT G 219 HETATM 6262 ONL WAT G 217 HETATM 6263 ONL WAT G 227 HETATM 6263 ONL WAT G 227 HETATM 6265 ONL WAT G 227 HETATM 6266 ONL WAT G 227 HETATM 6267 ONL WAT G 231 HETATM 6268 ONL WAT G 233 HETATM 6268 ONL WAT G 234 HETATM 6260 ONL WA	HETATM	6217							
HETATM 6220 OH2 WAT G 195 HETATM 6221 OH2 WAT G 196 HETATM 6222 OH2 WAT G 197 HETATM 6222 OH2 WAT G 197 HETATM 6223 OH2 WAT G 198 HETATM 6223 OH2 WAT G 198 HETATM 6223 OH2 WAT G 199 HETATM 6224 OH2 WAT G 199 HETATM 6225 OH2 WAT G 209 HETATM 6225 OH2 WAT G 200 HETATM 6226 OH2 WAT G 201 HETATM 6227 OH2 WAT G 201 HETATM 6227 OH2 WAT G 202 HETATM 6228 OH2 WAT G 202 HETATM 6227 OH2 WAT G 202 HETATM 6228 OH2 WAT G 203 HETATM 6229 OH2 WAT G 204 HETATM 6229 OH2 WAT G 204 HETATM 6229 OH2 WAT G 204 HETATM 6230 OH2 WAT G 205 HETATM 6230 OH2 WAT G 205 HETATM 6231 OH2 WAT G 206 HETATM 6231 OH2 WAT G 206 HETATM 6232 OH2 WAT G 207 HETATM 6232 OH2 WAT G 208 HETATM 6230 OH2 WAT G 207 HETATM 6230 OH2 WAT G 208 HETATM 6230 OH2 WAT G 209 HETATM 6231 OH2 WAT G 209 HETATM 6236 OH2 WAT G 211 HETATM 6237 OH2 WAT G 212 HETATM 6237 OH2 WAT G 211 HETATM 6238 OH2 WAT G 212 HETATM 6239 OH2 WAT G 213 HETATM 6230 OH2 WAT G 213 HETATM 6230 OH2 WAT G 213 HETATM 6230 OH2 WAT G 213 HETATM 6240 OH2 WAT G 215 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 221 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WA									
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HETATM 6222 OH2 WAT G 197 HETATM 6223 OH2 WAT G 198 HETATM 6223 OH2 WAT G 199 HETATM 6224 OH2 WAT G 199 HETATM 6225 OH2 WAT G 209 HETATM 6225 OH2 WAT G 201 HETATM 6226 OH2 WAT G 201 HETATM 6227 OH2 WAT G 201 HETATM 6227 OH2 WAT G 202 HETATM 6228 OH2 WAT G 202 HETATM 6229 OH2 WAT G 203 HETATM 6229 OH2 WAT G 204 HETATM 6230 OH2 WAT G 205 HETATM 6230 OH2 WAT G 205 HETATM 6230 OH2 WAT G 205 HETATM 6231 OH2 WAT G 206 HETATM 6231 OH2 WAT G 206 HETATM 6233 OH2 WAT G 207 HETATM 6233 OH2 WAT G 207 HETATM 6233 OH2 WAT G 208 HETATM 6230 OH2 WAT G 207 HETATM 6231 OH2 WAT G 208 HETATM 6230 OH2 WAT G 209 HETATM 6231 OH2 WAT G 207 HETATM 6230 OH2 WAT G 209 HETATM 6231 OH2 WAT G 209 HETATM 6230 OH2 WAT G 209 HETATM 6231 OH2 WAT G 209 HETATM 6230 OH2 WAT G 209 HETATM 6230 OH2 WAT G 209 HETATM 6231 OH2 WAT G 209 HETATM 6230 OH2 WAT G 201 HETATM 6230 OH2 WAT G 209 HETATM 6230 OH2 WAT G 209 HETATM 6230 OH2 WAT G 211 HETATM 6230 OH2 WAT G 213 HETATM 6240 OH2 WAT G 214 HETATM 6240 OH2 WAT G 215 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 219 HETATM 6240 OH2 WAT G 219 HETATM 6240 OH2 WAT G 221 HETATM 6250 OH2 WAT G 223 HETATM 6250 OH2 WAT G 224 HETATM 6250 OH2 WAT G 223 HETATM 6250 OH2 WAT G 233 HETATM 6250 OH2 WAT G 234 HETATM 6250 OH2 WAT G 234 HETATM 6260 OH2 WAT G 236 HETATM 6260 OH2 WAT G 237 HETATM 6260 OH2 WAT G 238 HETATM 6260 OH2 WAT G 236 HETATM 6260 OH2 WA	HETATM	6220							
HETATM 6222 OH2 WAT G 198 HETATM 6223 OH2 WAT G 198 HETATM 6224 OH2 WAT G 209 HETATM 6225 OH2 WAT G 201 HETATM 6227 OH2 WAT G 203 HETATM 6229 OH2 WAT G 203 HETATM 6229 OH2 WAT G 203 HETATM 6220 OH2 WAT G 204 HETATM 6220 OH2 WAT G 204 HETATM 6230 OH2 WAT G 205 HETATM 6230 OH2 WAT G 205 HETATM 6231 OH2 WAT G 206 HETATM 6231 OH2 WAT G 206 HETATM 6232 OH2 WAT G 207 HETATM 6232 OH2 WAT G 207 HETATM 6233 OH2 WAT G 208 HETATM 6234 OH2 WAT G 209 HETATM 6235 OH2 WAT G 209 HETATM 6236 OH2 WAT G 209 HETATM 6236 OH2 WAT G 211 HETATM 6237 OH2 WAT G 209 HETATM 6238 OH2 WAT G 211 HETATM 6238 OH2 WAT G 212 HETATM 6239 OH2 WAT G 213 HETATM 6240 OH2 WAT G 213 HETATM 6240 OH2 WAT G 213 HETATM 6240 OH2 WAT G 214 HETATM 6240 OH2 WAT G 215 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 229 HETATM 6240 OH2 WAT G 221 HETATM 6240 OH2 WAT G 221 HETATM 6250 OH2 WAT G 223 HETATM 6250 OH2 WAT G 231 HETATM 6250 OH2 WAT G 233 HETATM 6260 OH2 WAT G 234 HETATM 6260 OH2 WAT G 234 HETATM 6260 OH2 WAT G 234 HETATM 6260 OH2 WAT G 236 HETATM 6260 OH2 WAT G 237 HETATM 6260 OH2 WAT G 238 HETATM 6260 OH2 WAT G 236 HETATM 6260 OH2 WAT G 237 HETATM 6260 OH2 WAT G 238 HETATM 6260 OH2 WA	HETATM	6221	OH2	WAT G	196				
HETATM 6223 OH2 WAT G 198 25.484 12.756 121.410 1.00 43.80 HETATM 6225 OH2 WAT G 200 74.273 -13.079 95.699 1.00 44.89 HETATM 6226 OH2 WAT G 201 59.982 24.381 103.984 1.00 35.13 HETATM 6228 OH2 WAT G 202 67.164 -12.771 74.705 1.00 35.13 HETATM 6228 OH2 WAT G 204 53.266 -3.576 122.243 1.00 35.13 HETATM 6229 OH2 WAT G 204 53.266 -3.576 122.243 1.00 35.13 HETATM 6229 OH2 WAT G 204 53.266 -3.576 122.243 1.00 44.89 HETATM 6230 OH2 WAT G 205 50.706 16.208 87.357 1.00 41.26 HETATM 6231 OH2 WAT G 205 50.706 16.208 87.357 1.00 41.26 HETATM 6232 OH2 WAT G 207 68.078 -16.236 83.621 1.00 29.70 HETATM 6233 OH2 WAT G 209 53.384 -2.664 114.289 1.00 44.89 HETATM 6235 OH2 WAT G 209 53.384 -2.664 114.289 1.00 44.89 HETATM 6236 OH2 WAT G 211 23.405 17.472 111.744 1.00 44.99 HETATM 6238 OH2 WAT G 211 23.405 17.472 111.744 1.00 44.99 HETATM 6238 OH2 WAT G 212 46.214 20.943 76.878 1.00 44.89 HETATM 6238 OH2 WAT G 212 46.214 20.943 76.878 1.00 44.89 HETATM 6238 OH2 WAT G 214 46.820 -0.465 55.181 1.00 59.14 HETATM 6240 OH2 WAT G 215 59.143 22.096 124.775 1.00 32.50 HETATM 6241 OH2 WAT G 216 42.674 114.088 66.037 1.00 32.50 HETATM 6243 OH2 WAT G 217 55.009 -7.248 98.186 1.00 32.50 HETATM 6244 OH2 WAT G 219 66.583 -81.46 94.671 1.00 50.91 HETATM 6246 OH2 WAT G 219 66.583 -81.46 94.671 1.00 50.91 HETATM 6246 OH2 WAT G 221 44.627 -2.583 93.919 1.00 36.93 HETATM 6246 OH2 WAT G 221 44.627 -2.583 93.919 1.00 36.93 HETATM 6246 OH2 WAT G 221 44.627 -2.583 93.919 1.00 36.93 HETATM 6246 OH2 WAT G 221 44.627 -2.583 93.919 1.00 36.93 HETATM 6250 OH2 WAT G 221 76.913 -7.777 83.973 1.00 50.43 HETATM 6250 OH2 WAT G 221 76.913 -7.777 83.973 1.00 50.43 HETATM 6250 OH2 WAT G 221 76.913 -7.777 83.973 1.00 50.43 HETATM 6250 OH2 WAT G 221 76.913 -7.777 83.973 1.00 50.43 HETATM 6250 OH2 WAT G 223 32.788 0.651 129.136 1.00 42.47 HETATM 6250 OH2 WAT G 223 32.788 0.651 129.136 1.00 42.47 HETATM 6250 OH2 WAT G 223 33.755 14.939 70.228 1.00 45.56 HETATM 6250 OH2 WAT G 231 33.788 0.651 129.136 1.00 42.95 HETATM 6250 OH2 WAT G 231 33.788 0.651 129.136 1.00 42.95 HE			OH2	WAT G	197	42.432			
HETATM 6225 OH2 WAT G 199			OH2	WAT G	198				1.00 43.09
HETATM 6225 OH2 WAT G 200	HETATM	5224	OH2	WAT G	199	43.514	-20.514	111.706	
HETATM 6226 OH2 WAT G 201						74.273	-13.079	95.699	1.00 44.89
HETATM 6227 OH2 WAT G 202 HETATM 6228 OH2 WAT G 203 HETATM 6229 OH2 WAT G 204 HETATM 6229 OH2 WAT G 204 HETATM 6230 OH2 WAT G 205 HETATM 6231 OH2 WAT G 205 HETATM 6231 OH2 WAT G 206 HETATM 6232 OH2 WAT G 207 HETATM 6232 OH2 WAT G 207 HETATM 6233 OH2 WAT G 207 HETATM 6233 OH2 WAT G 207 HETATM 6233 OH2 WAT G 208 HETATM 6233 OH2 WAT G 208 HETATM 6234 OH2 WAT G 209 HETATM 6235 OH2 WAT G 209 HETATM 6236 OH2 WAT G 210 HETATM 6236 OH2 WAT G 211 HETATM 6237 OH2 WAT G 211 HETATM 6238 OH2 WAT G 211 HETATM 6238 OH2 WAT G 212 HETATM 6239 OH2 WAT G 213 HETATM 6239 OH2 WAT G 213 HETATM 6240 OH2 WAT G 214 HETATM 6240 OH2 WAT G 215 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 216 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 218 HETATM 6244 OH2 WAT G 219 HETATM 6245 OH2 WAT G 219 HETATM 6246 OH2 WAT G 220 HETATM 6247 OH2 WAT G 220 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 219 HETATM 6240 OH2 WAT G 220 HETATM 6240 OH2 WAT G 217 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 218 HETATM 6240 OH2 WAT G 220 HETATM 6250 OH2 WAT G 223 HETATM 6250 OH2 WAT G 224 T3.731 -16.880 88.817 1.00 42.47 HETATM 6250 OH2 WAT G 223 HETATM 6250 OH2 WAT G 224 T3.731 -16.880 88.817 1.00 42.47 HETATM 6250 OH2 WAT G 223 T3.757 13.977 81.662 1.00 35.84 HETATM 6250 OH2 WAT G 233 HETATM 6260 OH2 WAT G 233 HETATM 6260 OH2 WAT G 234 HETATM 6260 OH2 WAT G 237 HETATM 6260 OH2 WAT G 23						59.982	24.381	103.984	1.00 40.63
HETATM 6228 OH2 WAT G 203 28.708 9.211 79.238 1.00 33.53 HETATM 6230 CH2 WAT G 204 53.256 -3.576 122.243 1.00 48.49 HETATM 6231 CH2 WAT G 205 50.706 16.208 87.357 1.00 41.26 HETATM 6232 OH2 WAT G 206 50.000 34.998 98.339 1.00 39.15 HETATM 6233 OH2 WAT G 208 24.395 -4.134 111.635 1.00 50.82 HETATM 6233 OH2 WAT G 209 53.384 -2.664 114.289 1.00 44.49 HETATM 6235 OH2 WAT G 210 60.120 -9.482 94.788 1.00 31.97 HETATM 6236 OH2 WAT G 211 23.405 17.472 111.744 1.00 44.97 HETATM 6237 OH2 WAT G 211 23.405 17.472 111.744 1.00 44.97 HETATM 6239 OH2 WAT G 211 29.754 6.983 97.109 1.00 41.78 HETATM 6239 OH2 WAT G 213 29.754 6.983 97.109 1.00 41.78 HETATM 6240 OH2 WAT G 215 59.143 22.096 124.775 1.00 32.50 HETATM 6240 OH2 WAT G 215 59.143 22.096 124.775 1.00 32.50 HETATM 6242 OH2 WAT G 216 42.674 14.088 66.037 1.00 32.50 HETATM 6243 OH2 WAT G 218 63.361 -8.209 109.653 1.00 49.66 HETATM 6243 OH2 WAT G 219 66.583 -8.146 94.671 1.00 50.91 HETATM 6246 OH2 WAT G 219 66.583 -8.146 94.671 1.00 50.91 HETATM 6246 OH2 WAT G 229 44.627 -2.583 93.919 1.00 36.99 HETATM 6246 OH2 WAT G 221 44.707 -8.606 79.502 1.00 47.24 HETATM 6249 OH2 WAT G 221 44.627 -2.583 93.919 1.00 36.99 HETATM 6248 OH2 WAT G 221 76.913 -7.777 83.973 1.00 50.43 HETATM 6249 OH2 WAT G 221 76.913 -7.777 83.973 1.00 42.47 HETATM 6255 OH2 WAT G 222 76.913 -7.777 83.973 1.00 42.47 HETATM 6255 OH2 WAT G 223 32.788 0.651 129.136 1.00 43.17 HETATM 6255 OH2 WAT G 224 73.731 -16.880 88.817 1.00 42.47 HETATM 6255 OH2 WAT G 224 73.731 -16.880 88.817 1.00 42.47 HETATM 6255 OH2 WAT G 223 33.755 14.939 70.228 1.00 35.84 HETATM 6255 OH2 WAT G 233 37.576 1.00 43.17 HETATM 6255 OH2 WAT G 233 37.577 13.977 81.662 OH2 WAT G 234 31.719 110.067 1.00 50.91 HETATM 6255 OH2 WAT G 233 37.577 13.977 81.662 OH2 WAT G 235 66.624 31.119 110.067 1.00 51.02 HETATM 6266 OH2 WAT G 233 37.577 13.977 81.662 OH2 WAT G 235 66.624 31.119 110.067 1.00 53.16 HETATM 6266 OH2 WAT G 235 66.624 31.119 110.067 1.00 53.16 HETATM 6266 OH2 WAT G 234 31.719 110.067 1.00 53.16 HETATM 6266 OH2 WAT G 235 66.624 31.119 110						67.164			1.00 35.13
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HETATM 6250 OHF WAT G 225 78.567 -2.802 93.970 1.00 43.17 HETATM 6251 OH. WAT G 226 45.681 1.248 57.532 1.00 35.84 HETATM 6252 OHL WAT G 227 38.263 15.236 84.711 1.00 42.39 HETATM 6253 OH2 WAT G 228 38.933 35.224 108.488 1.00 52.23 HETATM 6254 OH2 WAT G 229 33.755 14.939 70.228 1.00 46.56 HETATM 6255 OH2 WAT G 230 51.521 34.184 100.859 1.00 52.96 HETATM 6256 OH2 WAT G 231 34.140 0.565 63.039 1.00 31.02 HETATM 6257 OH2 WAT G 232 37.277 13.977 81.662 1.00 39.83 HETATM 6258 OH2 WAT G 233 57.307 5.947 93.216 1.00 28.55 HETATM 6260 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6261 OH2 WAT G 235 60.524 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6266 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 29.587 1.898 127.376 1.00 44.85 HETATM 6268 OH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83									
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HETATM 6252 OHL WAT G 227 HETATM 6253 OH2 WAT G 228 HETATM 6254 OH2 WAT G 229 HETATM 6255 OH2 WAT G 230 HETATM 6256 OH2 WAT G 231 HETATM 6257 OH2 WAT G 232 HETATM 6258 OH2 WAT G 232 HETATM 6258 OH2 WAT G 233 HETATM 6259 OH2 WAT G 233 HETATM 6259 OH2 WAT G 234 HETATM 6260 OH2 WAT G 235 HETATM 6261 OH2 WAT G 236 HETATM 6262 OH2 WAT G 237 HETATM 6262 OH2 WAT G 237 HETATM 6263 OH2 WAT G 236 HETATM 6264 OH2 WAT G 237 HETATM 6265 OH2 WAT G 237 HETATM 6266 OH2 WAT G 237 HETATM 6266 OH2 WAT G 237 HETATM 6267 OH2 WAT G 238 HETATM 6268 OH2 WAT G 238 HETATM 6264 OH2 WAT G 238 HETATM 6265 OH2 WAT G 239 HETATM 6266 OH2 WAT G 239 HETATM 6266 OH2 WAT G 239 HETATM 6267 OH2 WAT G 240 HETATM 6268 OH2 WAT G 241 HETATM 6268 OH2 WAT G 242 HETATM 6268 OH2 WAT G 243 HETATM 6268 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6268 OH2 WAT G 243 HETATM 6268 OH2 WAT G 243 HETATM 6268 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6268 OH2 WAT G 243 HETATM 6268 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244	HETATM	6250					-2.802	93.970	
HETATM 6253 OH2 WAT G 228 HETATM 6254 OH2 WAT G 229 HETATM 6255 OH2 WAT G 230 HETATM 6255 OH2 WAT G 231 HETATM 6256 OH2 WAT G 231 HETATM 6257 OH2 WAT G 232 HETATM 6257 OH2 WAT G 232 HETATM 6258 OH2 WAT G 233 HETATM 6259 OH2 WAT G 233 HETATM 6259 OH2 WAT G 234 HETATM 6250 OH2 WAT G 234 HETATM 6250 OH2 WAT G 235 HETATM 6260 OH2 WAT G 235 HETATM 6261 OH2 WAT G 236 HETATM 6261 OH2 WAT G 237 HETATM 6262 OH2 WAT G 237 HETATM 6263 OH2 WAT G 237 HETATM 6264 OH2 WAT G 238 HETATM 6265 OH2 WAT G 237 HETATM 6266 OH2 WAT G 238 HETATM 6266 OH2 WAT G 239 HETATM 6267 OH2 WAT G 239 HETATM 6268 OH2 WAT G 240 HETATM 6266 OH2 WAT G 241 HETATM 6267 OH2 WAT G 241 HETATM 6268 OH2 WAT G 242 HETATM 6268 OH2 WAT G 243 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244									
HETATM 6254 OH2 WAT G 229 33.755 14.939 70.228 1.00 46.56 HETATM 6255 OH2 WAT G 230 51.521 34.184 100.859 1.00 52.96 HETATM 6256 OH2 WAT G 231 34.140 0.565 63.039 1.00 31.02 HETATM 6257 OH2 WAT G 232 37.277 13.977 81.662 1.00 39.83 HETATM 6258 OH2 WAT G 233 57.307 5.947 93.216 1.00 28.55 HETATM 6259 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6260 OH2 WAT G 235 60.624 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83	HETATM	6252							
HETATM 6255 OH2 WAT G 230 51.521 34.184 100.859 1.00 52.96 HETATM 6256 OH2 WAT G 231 34.140 0.565 63.039 1.00 31.02 HETATM 6257 OH2 WAT G 232 37.277 13.977 81.662 1.00 39.83 HETATM 6258 OH2 WAT G 233 57.307 5.947 93.216 1.00 28.55 HETATM 6259 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6250 OH2 WAT G 235 60.624 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 29.587 1.898 127.376 1.00 44.85 HETATM 6269 OH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83	HETATM	6253							
HETATM 6255 OH2 WAT G 230	HETATM	6254	OH2	WAT C	229		14.939		
HETATM 6256 CH2 WAT G 231 34.140 0.565 63.039 1.00 31.02 HETATM 6257 OH2 WAT G 232 37.277 13.977 81.662 1.00 39.83 HETATM 6258 OH2 WAT G 233 57.307 5.947 93.216 1.00 28.55 HETATM 6259 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6260 OH2 WAT G 235 60.624 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.956 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83			OH2	WAT C	230	51.521			
HETATM 6257 OH2 WAT G 232 37.277 13.977 81.662 1.00 39.83 HETATM 6258 OH2 WAT G 233 57.307 5.947 93.216 1.00 28.55 HETATM 6259 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6260 OH2 WAT G 235 60.624 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.956 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83						34.140	0.565	63.039	
HETATM 6258 OH2 WAT G 233 57.307 5.947 93.216 1.00 28.55 HETATM 6259 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6260 OH2 WAT G 235 60.624 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.956 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 29.587 1.898 127.376 1.00 44.85 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83	HETATM	6257	OH2	WAT	232	37.277	13.977	81.662	
HETATM 6259 OH2 WAT G 234 31.718 16.820 125.707 1.00 53.16 HETATM 6260 OH2 WAT G 235 60.624 31.119 110.067 1.00 51.02 HETATM 6261 OH2 WAT G 236 44.357 4.267 94.916 1.00 57.50 HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6268 OH2 WAT G 242 29.587 1.898 127.376 1.00 44.85 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83			OH2	WAT C	233	57.307	5.947	93.216	
HETATM 6260 OH2 WAT G 235 HETATM 6261 OH2 WAT G 236 HETATM 6262 OH2 WAT G 237 HETATM 6263 OH2 WAT G 238 HETATM 6263 OH2 WAT G 238 HETATM 6264 OH2 WAT G 239 HETATM 6264 OH2 WAT G 239 HETATM 6265 OH2 WAT G 240 HETATM 6266 OH2 WAT G 241 HETATM 6266 OH2 WAT G 241 HETATM 6267 OH2 WAT G 242 HETATM 6268 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244 HETATM 6268 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244 HETATM 6269 OH2 WAT G 244	HETATM	6259				31.718	16.820	125.707	
HETATM 6261 OH2 WAT G 236 HETATM 6262 OH2 WAT G 237 HETATM 6263 OH2 WAT G 238 HETATM 6263 OH2 WAT G 238 HETATM 6264 OH2 WAT G 239 HETATM 6265 OH2 WAT G 240 HETATM 6265 OH2 WAT G 241 HETATM 6266 OH2 WAT G 241 HETATM 6267 OH2 WAT G 242 HETATM 6268 OH2 WAT G 243 HETATM 6268 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244							31.119	110.067	
HETATM 6262 OH2 WAT G 237 68.454 1.072 70.111 1.00 38.65 HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6267 OH2 WAT G 242 29.687 1.898 127.376 1.00 44.85 HETATM 6268 OH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83									
HETATM 6263 OH2 WAT G 238 27.836 6.773 79.253 1.00 44.95 HETATM 6264 OH2 WAT G 239 54.933 23.344 81.087 1.00 42.95 HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6267 OH2 WAT G 242 29.687 1.898 127.376 1.00 44.85 HETATM 6268 OH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83									1.00 38.65
HETATM 6264 CH2 WAT G 239	TEUD TO	6263					5 6.773	79.253	
HETATM 6265 OH2 WAT G 240 34.072 -15.271 71.579 1.00 45.78 HETATM 6266 OH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6267 OH2 WAT G 242 29.687 1.898 127.376 1.00 44.85 HETATM 6268 OH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83								81.087	
HETATM 6266 CH2 WAT G 241 35.966 -1.059 61.973 1.00 38.91 HETATM 6267 CH2 WAT G 242 29.687 1.898 127.376 1.00 44.85 HETATM 6268 CH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 CH2 WAT G 244 57.252 9.773 96.696 1.00 48.83	TEN1 M	5755							
HETATM 6267 OH2 WAT G 242 HETATM 6268 OH2 WAT G 243 HETATM 6269 OH2 WAT G 244	menama manama	1 2222							
HETATM 6268 OH2 WAT G 243 49.534 -10.150 113.501 1.00 38.32 HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83	HEIAIM	5200					7 1.898		
HETATM 6269 OH2 WAT G 244 57.252 9.773 96.696 1.00 48.83						49 53	4 -10 150	113.501	
TEIRIN 0205 0111 1111 0 20 20 EA									
HETAIN 02/0 CH2 WAI G 245 02.310 13.202 30.3.2 1.00 00.01									
	HETATM	0210	Unz		2 427	02.31		•	-

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50.248 -5.552 102.815 1.00 43.23
             CH2 WAT G 246
HETATM 6271
                                                            1.00 36.79
                                 47.966 21.564 79.321
HETATM 6272
              OH2 WAT G 247
                                                            1.00 35.30
                                 62.507 20.866 108.414
              OH2 WAT G 248
HETATM 6273
                                 53.971 19.763 61.067
                                                            1.00 47.49
              OH2 WAT G 249
HETATM 6274
                                          9.828
                                                   67.749
                                                            1.00 33.71
                                 38.406
              OH2 WAT G 250
HETATM 6275
                                                            1.00 36.23
                                 35.304 -6.179
                                                    66.319
HETATM 6276
              OH2 WAT G 251
                                                            1.00 36.17
                                 39.218 -12.667
                                                    85.010
              OH2 WAT G 252
HETATM 6277
                                          5.089 97.225
                                                            1.00 46.38
                                56.350
69.850
              OH2 WAT G 253
HETATM 6278
                                           3.406 122.119
                                                           1.00 55.07
              OH2 WAT G 254
HETATM 6279
                                           2.630 128.600
                                                           1.00 30.64
                                  75.703
              OH2 WAT G 255
HETATM 6280
                                 32.019 -12.973 113.965 1.00 34.48
              OH2 WAT G 256
HETATM 6281
                                          3.421 56.994
                                                            1.00 39.11
                                 54.081
              OH2 WAT G 257
HETATM 6282
                                 32.801 -6.170 91.078
                                                            1.00 35.72
              OH2 WAT G 258
HETATM 6283
                                45.040
                                                             1.00 36.57
                                           0.301
                                                    95.449
HETATM 6284
              OH2 WAT G 259
                                                            1.00 40.10
                                          21.460 128.855
                                  39.815
              OH2 WAT G 260
HETATM 6285
                                  28.763 10.408 93.790
                                                            1.00 44.39
              OH2 WAT G 261
OH2 WAT G 262
HETATM 6286
                                                            1.00 50.89
                                 49.668 -12.050
                                                   60.539
HETATM 6287
                                  64.353 20.015 117.495
                                                            1.00 62.67
              OH2 WAT G 263
HETATM 6288
                                  75.183 13.021 128.124
                                                             1.00 50.42
              OH2 WAT G 264
                              75.183 13.021 128.124 1.00 50.42
46.289 6.826 52.485 1.00 46.86
68.708 13.973 70.958 1.00 37.90
71.504 12.997 130.029 1.00 38.78
36.309 -4.716 130.364 1.00 42.92
65.973 12.195 79.625 1.00 51.68
HETATM 6289
              OH2 WAT G 265
HETATM 6290
              OH2 WAT G 266
HETATM 6291
              OH2 WAT G 267
OH2 WAT G 268
HETATM 6292
HETATM 6293
              CH2 WAT G 269
HETATM 6294
                                                             1.00 37.70
                                  71.952 13.021
                                                    74.292
              OH2 WAT G 270
HETATM 6295
                                  44.433 -17.578 62.734
26.917 15.038 89.067
63.380 -5.416 126.550
                                                             1.00 49.33
              CH2 WAT G 271
HETATM 6296
                                                             1.00 38.07
              OH2 WAT G 272
HETATM 6297
                                                            1.00 41.73
              OH2 WAT G 273
HETATM 6298
                                  63.360 -5.356
                                                            1.00 37.54
                                                   95.641
HETATM 6299
              OH2 WAT G 274
                                                            1.00 37.42
1.00 48.37
1.00 46.36
                                                   97.485
                                   65.947 -13.015
              OH2 WAT G 275
HETATM 6300
                                  26.406 25.831 117.328
              OH2 WAT G 276
 HETATM 6301
                                  41.893 -10.251 98.201 1.00 46.36
30.343 -6.507 117.764 1.00 49.87
 HETATM 6302
              OH2 WAT G 277
               OH2 WAT G 278
 HETATM 6303
                                   45.135 32:419 111.056 1.00 43.93
              OH2 WAT G 279
OH2 WAT G 280
 HETATM 6304
                                           -1.365 120.511 1.00 54.02
                                 50.553
 HETATM 6305
                                  60.428 13.652 105.130
                                                             1.00 31.10
               OH2 WAT G 281
 HETATM 6306
                                                    70.246
                                                             1.00 45.19
                                   30.342
                                            2.204
 HETATM 6307
               OH2 WAT G 282
                                                             1.00 33.17
                                   60.358 15.921 127.736
               OH2 WAT G 283
 HETATM 6308
                                             3.421 62.117
                                                             1.00 45.81
               OH2 WAT G 284
                                   64.193
 HETATM 6309
                                   45.468
                                            6.113 105.853
                                                             1.00 48.98
               OH2 WAT G 285
 HETATM 6310
                                                             1.00 46.45
                                            3.808 98.279
                                   47.514
               OH2 WAT G 286
 HETATM 6311
                                                     77.930 1.00 40.04
99.674 1.00 43.62
                                           -6.345
               OH2 WAT G 287
                                   72.144
 HETATM 6312
                                   54.142
                                           -5.100
HETATM 6313
               OH2 WAT G 288
                                                    65.822 1.00 46.98
                                           13.297
                                   48.982
 HETATM 6314
               OH2 WAT G 289
                                           34.107 115.807 1.00 51.76
                                   41.171
              OH2 WAT G 290
 HETATM 6315
                                  36.494 37.195 104.170 1.00 44.27
              OH2 WAT G 291
OH2 WAT G 292
 HETATM 6316
                                                    85.456 1.00 40.96
                                  48.580 23.117
 HETATM 6317
                                                             1.00 40.95
1.00 41.21
                                                    98.099
              OH2 WAT G 293
                                   55.853 22.934
 HETATM 6318
                                           11.077
                                   61.720
                                                     89.427
 HETATM 6319
               OH2 WAT G 294
                                                             1.00 42.32
                                   43.313 -18.552 114.112
               OH2 WAT G 295
 HETATM 6320
                                                             1.00 37.41
                                           -6.305 129.052
               OH2 WAT G 296
                                   53.001
 HETATM 6321
                                                             1.00 48.09
                                           24.928 82.843
                                   70.258
               OH2 WAT G 297
 HETATM 6322
                                                             1.00 51.77
                                            0.940 130.507
                                   77.493
               OH2 WAT G 298
 HETATM 6323
                                                             1.00 53.51
1.00 46.49
                                           12.182 83.028
                                   32.233
               OH2 WAT G 299
 HETATM 6324
                                                    65.747
                                    40.666
                                            12.878
               OH2 WAT G 300
 HETATM 6325
                                                             1.00 48.51
                                            12.831 114.597
                                   50.977
 HETATM 6326
               OH2 WAT G 301
                                             3.817 92.196 1.00 41.15
                                    54.236
               OH2 WAT G 302
 HETATM 6327
                                            -1.343 107.471 1.00 36.71
                                    59.527
               OH2 WAT G 303
OH2 WAT G 304
 HETATM 6328
                                            3.940 89.312 1.00 47.70
                                    70,331
 HETATM 6329
                                             6.969 127.780 1.00 41.96
               CH2 WAT G 305
                                    60.626
  HETATM 6330
                                                              1.00 32.19
                                            -0.139 133.156
                                    42.156
               OH2 WAT G 306
  HETATM 6331
                                                              1.00 53.60
                                    58.886
                                            16.514 99.413
               OH2 WAT G 307
  HETATM 6332
                                                              1.00 40.36
                                                     96,570
                                    67.517
                                            -1.589
               OH2 WAT G 308
 HETATM 6333
                                    35.868 -10.936 98.849 1.00 48.80
               OH2 WAT G 309
  HETATM 6334
                                    45.576 25.388 131.914 1.00 48.99
               OH2 WAT G 310
  HETATM 6335
                                37.583 -6.243 64.257 1.00 37.06
               CH2 WAT G 311
  HETATM 6336
```

HETATM	6337	OH2	WAT	G	312		66.759	16.408	94.600	1.00 45.07
HETATM		OH2	!:UAT	G	313		24.142	11.212	113.340	1.00 52.23
HETATM			WAT				69.409	16.702	64.230	1.00 39.88
HETATM		OH2					22.064		115.328	1.00 50.23
HETATM	6341	OH2	WAT	G	316		50.171	9.551	100.345	1.00 37.32
HETATM	6342	OH2	WAT	G	317		55.104	31.302	119.497	1.00 44.78
НЕТАТМ			WAT	_				-10.105	95.866	1.00 44.21
HETATM		OH2	WAT	G	319		31.415	-2.472	128.127	1.00 41.95
HETATM	6345	OH2	WAT	G	320		37.423	13.143	88.069	1.00 44.79
HETATM		OH2	WAT	G	321		43.619	14.292	96.509	1.00 54.69
HETATM			TAW				68.048		126.016	1.00 42.75
HETATM	6348		WAT				34.778		130.204	1.00 37.06
HETATM	6349	OH2	TAW	G	324	•	27.972	18.144	103.841	1.00 47.34
HETATM	6350	OH2	WAT	G	325		53.550	23.610	97.592	1.00 38.03
HETATM			WAT				33.776		103.451	1.00 50.60
HETATM			WAT				37.862		114.870	1.00 48.34
HETATM	6353	OH2	WAT	G	328		50.893	14.612	93.478	1.00 38.77
HETATM	6354	OH2	WAT	G	329		71.422	-20.913	86.137	1.00 47.69
HETATM		OH2	WAT	G	330			-23.133	74.502	1.00 41.94
			WAT				41.520	7.269	60.583	1.00 54.93
HETATM										
HETATM	6357		WAT				75.879		106.089	1.00 44.65
HETATM	6358	OH2	WAT	G	333		51.923	9.027	138.493	1.00 41.08
HETATM	6359	OH2	WAT	G	334		49.511	27.611	79.363	1.00 39.05
HETATM			WAT				69.385		110.192	1.00 41.42
HETATM			WAT				40.952	2.479	101.880	1.00 42.50
HETATM	6362	OH2	WAT	G	337		32.998	7.200	103.784	1.00 54.22
HETATM	6363	OH2	MAT	G	338		54.366	15.261	136.205	1.00 52.69
HETATM		OH2	WAT	G	339		35.674	13.727	89.792	1.00 35.83
								-21.361	87.138	
HETATM			TAW							1.00 46.26
HETATM	6366	OH2	TAW	G	341		72.053		131.550	1.30 45.27
HETATM	6367	OH2	WAT	G	`342		28.072	-1.358	70.419	1.00 34.92
HETATM	6368	OH2	WAT	G	343		23.611	-3.981	76.422	1.00 52.39
HETATM			WAT				53.684		122.150	1.00 58.16
									125.556	
HETATM			WAT				30.624			1.00 34.71
HETATM	6371	OH2	WAT	G	346		27.870	13.838	113.997	1.00 44.91
HETATM	6372	OH2	TAW	G	347		31.903	-9.588	116.327	1.00 55.34
HETATM	6373	OH2	WAT	G	348		71.763	15.094	63.739	1.00 48.99
HETATM			TAV				25.258		114.760	1.00 37.19
HETATM			WAT				43.765	12.162	78.143	1.00 42.32
HETATM	6376	OH2	WAT	G	351		32.452	5.338	73.909	1.00 33.70
HETATM	6377	OH2	WAT	G	352		52.896	-5.770	101.894	1.00 46.40
HETATM	6378	OH2	WAT	G	353		47.968	4.242	115.852	1.00 34.62
HETATM			WAT				38.561	-9.302	90.596	1.00 49.80
HETATM			WAT				63.791	17.454	74.354	1.00 56.40
HETATM	6381	OH2	TAW	G	3.56		41.360	2.648	133.760	1.00 50.00
HETATM	6382	OH2	TAW	G	357		42.467	-7.937	122.328	1.00 38.01
HETATM			WAT				50.890	-0.362	116.668	1.00 39.26
HETATM			WAT					-23.881	67.865	1.00 55.18
HETATM			WAT				64.959		105.032	1.00 38.83
HETATM	6386	OH2	TAW	G	361		58.113	-19.846	82.288	1.00 38.60
HETATM	6387	OH2	WAT	G	362		42.245	-1.140	93.572	1.00 31.47
HETATM			WAT				73.552	17 770	125.885	1.00 54.89
									106.810	1.00 45.53
HETATM			WAT				68.769			
HETATM		OH2	HAT	G	365		37.543	19.031	78.866	1.00 45.15
HETATM	6391	OH2	WAT	G	366		55.583	6.906	95.087	1.00 44.99
HETATM			NAT				41.284	9.699	78.250	1.00 36.58
HETATM			WAT				25.203		126.362	1.00 46.60
HETATM			TAW				74.742	-5.006	95.104	1.00 47.85
HETATM	6395		TAW				70.349	19.871	69.925	1.00 51.46
HETATM		OH2	WAT	G	371		42.936	20.631	94.720	1.00 38.66
HETATM			WAT					-16.114	114.141	1.00 44.01
			TAK				33.863		100.275	1.00 44.66
HETATM										
HETATM			TAW				21.613	12.569	86.140	1.00 43.89
HETATM	6400		WAT				35.751		100.583	1.00 53:53
HETATM		CH2	WAT	G	376	•	70.095	13.395	117.505	1.00 52.02
HETATM			WAT				41.853		131.799	1.00 46.47
	J-104	~		9	- · ·					

Figure 18-98
T G 378 55.780 - 40.990

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55.780 -14.986 65.487 1.00 49.09
HETATM 6403 CH2 WAT G 378
                                                         40.990 21.205 91.611
                                                                                                   1.00 41.02
HETATM 6404
                       OH2 WAT G 379
                                                                        1.057 116.992
                                                         48.157
                        OH2 WAT G 380
HETATM 6405
                                                       37.954 -6.221 128.334 1.00 37.09
                        OH2 WAT G 381

      37.954
      -6.221
      128.334
      1.00
      37.09

      30.221
      27.743
      109.194
      1.00
      39.92

      49.926
      -12.826
      118.421
      1.00
      58.95

      42.435
      -17.636
      81.477
      1.00
      48.47

      58.226
      -25.990
      71.378
      1.00
      48.18

      40.495
      17.944
      128.741
      1.00
      43.82

      31.943
      6.301
      109.475
      1.00
      35.53

      47.277
      2.559
      100.509
      1.00
      43.00

      38.862
      9.112
      102.620
      1.00
      31.70

      71.652
      14.568
      105.167
      1.00
      49.63

      68.554
      -10.518
      73.331
      1.00
      38.16

      70.496
      -16.160
      84.425
      1.00
      32.16

HETATM 6406
                        OH2 WAT G 382
HETATM 6407
                       OH2 WAT G 383
HETATM 6408
                        OH2 WAT G 384
HETATM 6409
                        OH2 WAT G 385
HETATM 6410
                        OH2 WAT G 386
HETATM 6411
                        OH2 WAT G 387
HETATM 6412
                        OH2 WAT G 388
HETATM 6413
                        OH2 WAT G 389
HETATM 6414
                        OH2 WAT G 390
HETATM 6415
HETATM 6416
                        OH2 WAT G 391
                                                                                                     1.00 32.16
                                                       70.496 -16.160
                        OH2 WAT G 392
                                                                                     84.425
HETATM 6417
                                                        44.698 -24.950
56.172 15.369
                                                                                     75.603
                                                                                                     1.00 43.38
                        OH2 WAT G 393
OH2 WAT G 394
HETATM 6418
                                                                                                     1.00 47.44
                                                                                     55.027
HETATM 6419
                                                                                     99.999
                                                                                                    1.00 47.98
                                                31.737 14.380 90.395 1.00 34.99
31.737 14.380 90.395 1.00 50.78
36.261 -13.824 62.777 1.00 50.86
37.312 15.242 134.977 1.00 43.57
33.728 13.773 126.419 1.00 57.13
45.269 27.937 130.311 1.00 49.55
44.887 -17.414 111.508 1.00 54.29
68.928 0.455 136.711 1.00 49.90
43.271 -21.571 64.425 1.00 48.61
24.243 -4.781 108.590 1.00 51.05
54.828 5.311 59.009
                                                       46.150 -9.441
                        CH2 WAT G 395
HETATM 6420
                        OH2 WAT G 396
HETATM 6421
HETATM 6422
                        OH2 WAT G 397
                        OH2 WAT G 398
HETATM 6423
                        OH2 WAT G 399
HETATM 6424
                        OH2 WAT G 400
OH2 WAT G 401
HETATM 6425
HETATM 6426
                        OH2 WAT G 402
 HETATM 6427
                        OH2 WAT G 403
HETATM 6428
                        OH2 WAT G 404
HETATM 6429
                       OH2 WAT G 405
 HETATM 6430
                       OH2 WAT G 406
OH2 WAT G 407
OH2 WAT G 407
OH2 WAT G 408
OH2 WAT G 408
OH2 WAT G 409
OH2 WAT G 410
OH2 WAT G 410
OH2 WAT G 411
OH2 WAT G 411
OH2 WAT G 411
OH2 WAT G 411
OH2 WAT G 412
OH2 WAT G 412
OH2 WAT G 413
OH2 WAT G 413
OH2 WAT G 414
OH2 WAT G 415
OH2 WAT G 415
OH2 WAT G 416
OH2 WAT G 417
OH2 WAT G 415
OH2 WAT G 417
OH2 WAT G 416
OH2 WAT G 417
OH2 WAT G 418
OH2 WAT G 418
                        OH2 WAT G 406
OH2 WAT G 407
 HETATM 6431
 HETATM 6432
 HETATM 6433
 HETATM 6434
 HETATM 6435
 HETATM 6436
 HETATM 6437
 HETATM 6438
 HETATM 6439
 HETATM 6440 OH2 WAT G 415
 HETATM 6441
                       OH2 WAT G 417
 HETATM 6442
                                                          55.256 -10.714 124.501
                                                                                                     1.00 42.38
                         OH2 WAT G 418
 HETATM 6443
                                                          55.443 -9.037 110.170 1.00 46.47
                        CH2 WAT G 419
  HETATM 6444
                                                         73.873 16.578 123.288 1.00 46.54
74.426 12.663 117.527 1.00 43.62
                        OH2 WAT G 420 73.873 16.578 123.288 1.00 46.54
OH2 WAT G 421 74.426 12.663 117.527 1.00 43.62
OH2 WAT G 422 52.374 -0.368 51.502 1.00 56.99
OH2 WAT G 423 60.339 20.215 84.713 1.00 36.27
OH2 WAT G 424 48.308 1.354 54.561 1.00 38.53
OH2 WAT G 425 61.757 21.606 115.976 1.00 61.09
 HETATM 6445
 HETATM 6446
 HETATM 6447
 HETATM 6448
  HETATM 6449
                                                                                                     1.00 51.12
  HETATM 6450
                                                        33.222 -14.916 119.528
                        OH2 WAT G 426
 HETATM 6451
                                                                        3.359 112.298
2.272 138.388
                                                                                                      1.00 46.10
                                                         47.477
 HETATM 6452
                        OH2 WAT G 427
                                                                                                     1.00 35.33
                         OH2 WAT G 428
                                                          39.909
  HETATM 6453
                                                           57.829 15.336 126.262
                                                                                                     1.00 62.59
                        OH2 WAT G 429
  HETATM 6454
                                                          48.917 -5.857 119.191
                                                                                                     1.00 51.45
                         OH2 WAT G 430
  HETATM 6455
                                                          44.139 -3.812 132.964
                                                                                                     1.00 44.91
                         OH2 WAT G 431
  HETATM 6456
                                                                                                    1.00 50.23
1.00 38.96
1.00 47.30
                                                          38.885 18.594 95.398
52.628 -7.064 55.271
                         OH2 WAT G 432
  HETATM 6457
  HETATM 6458
                        OH2 WAT G 433
                                                                         -0.731 101.129
                                                          60.644
                        OH2 WAT G 434
  HETATM 6459
                                                                         5.808 71.942 1.00 50.81
                                                          64.772
                        OH2 WAT G 435
  HETATM 6460
                                                                        16.705 80.180 1.00 34.07
                                                          39.571
  HETATM 6461
                         CH2 WAT G 436
                                                          32.791
                                                                                                     1.00 41.40
                         OH2 WAT G 437
                                                                         -0.551 65.371
  HETATM 6462
                                                                                                     1.00 46.94
                                                          58.318 -7.989 60.087
                         OH2 WAT G 438
  HETATM 6463
                                                           26.982
                                                                         5.474 120.408 1.00 46.28
                        OH2 WAT G 439
  HETATM 6464
                                                           72.138 1.233 90.050 1.00 50.13
29.494 10.971 118.393 1.00 56.30
69.232 5 504 112 013
  HETATM 6465
                         OH2 WAT G 440
                         OH2 WAT G 441
  HETATM 6466
                                                         69.232
                                                                          5.594 113.941 1.00 58.17
                                                   69.232 5.594 113.941 1.00 30.2.
61.459 11.576 71.140 1.00 61.67
                         OH2 WAT G 442
· HETATM 6467
  HETATM 6468 OH2 WAT G 443
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HETATM	6469	он2	TAW	G	444	59.592	2.195	58.518	1.00	42.66	
HETATM	6470	OH2	LWAT	G	445	47.407	6.152	111.310	1.00	45.14	
HETATM	6471	OH2	WAT	G	446	36.254	18.203	99.930	1.00	44.76	
HETATM	6472	он2	WAT	G	447	49.525	32.050	116.235	1.00	47.72	
HETATM	6473	OH2	WAT	G	448	21.801	-5.358	81.109	1.00	42.07	
HETATM	6474	OH2	WAT	G	449	52.131	-14.007	95.380	1.00	40.76	
·HETATM	6475	OH2	WAT	G	450	39.712	-19.983	72.499	1.00	51.69	
HETATM	6476	OH2	WAT	G	451	67.651	5.620	67.102	1.00	42.38	
HETATM	6477	OH2	WAT	G	452	77.344	1.313	79.207	1.00	63.64	
HETATM	6478	OH2	WAT	G	453	55.249	-29.426	86.187	1.00	44.98	
HETATM	6479	OH2	WAT	G	454	64.429	-11.004	98.104	1.00	49.12	
HETATM	6480	OH2	WAT	G	455	45.456	-0.814	129.510	1.00	61.60	
HETATM	6481	он2	TAW	G	456	65.066	-14.790	68.028	1.00	40.08	
MEANAM	6482	OH2	TAN	G	457	34.732	5.611	94.924	1.00	58.32	



				1	rigule 13-1				
				Residue	e # X	Y	Z	B Segment	
ATCM	1	CB	ALA A		45.368	37,229	75.022	1.00 57.10	بتبيين
ATOM	-	c	المتد		46.751	38.761	73.244	1.00 55.49	aaa.
	- 3	Ċ	ALA A		46.339	39.800	73.750	1.00 55.57	ببهري
ATOM	٠				48.280	37.746	74.937	1.00 57.26	ನನೆನೆನ
ATOM	4	::	ALA A		47.062	37.537	74.110	1.00 56.37	AAAA
ATOM	5	CA	ALA A				71.938	1.00 53.94	AAAA
ATCM	5	::	LYS ?		46.976	.38.628		1.00 23.94	
ATCM	7	CA	LIS	\ 3	46.721	39.716	71.002	1.00 51.97	AAAA
ATOM	. 8	CE	LYS A		47.815	39.778	69.939	1.00 53.86	AAAA
ATOM	9	cs	LYS A		49.223	.39.276	70.490	1.00 56.47	AAAA
	10	22	LYS ?		50.252	39.670	69.387	1.00 57.84	aaaa
ATOM					51.654	39.597	69.957	1.00 58.89	አሕሕሕ
ATOM	11	CE	LYS A		52.643	39.283	68.895	1.00 59.33	AAAA
ATOM	12	ΞZ	LYS				70.305	1.00 49.57	AAAA
ATOM	13	Ξ	LYS ?		45.393	39.494			
ATOM	14	.)	LYS ?	3	44.894	38.373	70.246	1.00 49.33	AAAA
ATOM	15	17	VAL A	A 4	44.826	40.574	69.777	1.00 46.23	AAAA
ATOM	16	CA	77AL 2	A 4	43.561	40.516	69.056	1.00 42.51	AAA A
	17	C3	VAL		42.543	41.516	69.630	1.00 42.26	AAAA
ATOM		CG1	VAL	-	41.213	41.352	68.940	1.00 41.51	AAAA
ATCM	18				42.401	41.307	71.128	1.00 42.00	AAAA
MOTA	19	CG2					67.638	1.00 39.94	AAAA
ATOM	20	Ξ	VAL A		43.918	40.913		1.00 40.39	
ATOM	21	਼	VAL		44.332	42.032	67.395		AAAA
ATOM	22	:1	LYS	a 5	43.766	40.001	56.695	1.00 36.94	AAAA
ATOM	23	CA	LYS		44.142	40.305	65.323	1.00 34.10	AAAA
ATOM	24	23	LYS		45.179	39.290	64.846	1.00 35.02	AAAA
	25	cs	LYS		46.424	39.182	65.698	1.00 34.07	AAAA
ATOM		25	LYS		47.233	40.452	65.652	1.00 33.44	AAAA
ATOM	26				48.555	40.239	66.333	1.00 32.38	anna
ATOM	27	CΞ	LYS .				56.222	1.00 31.26	áááá
atom	28	::2	LYS		49.372	41.460			AAAA
ATOM	29	Ç	LYS .	A 5	42.997	40.293	64.333	1.00 31.38	
ATOM	30	0	LYS	a 5	42.053	39.523	64.466	1.00 31.74	AAAA
ATOM	31	27	LEU	à 6	43.090	41.142	63.326	1.00 28.50	AAAA
MOTA	32	CA	LEU		42.075	41.167	62.289	1.00 26.90	AAAA
	33	CЗ	LEU		41.530	42.580	62.067	1.00 26.43	AAAA
MOTA					40.321	42.748	61.129	1.00 25.89	AAAA
ATOM	34	CG.	LEU		40.108	44.224	60.826	1.00 25.50	AAAA
MOTA	35	221	LEU				59.828	1.00 26.64	AAAA
ATCH	36	502			40.550	42.032			AAAA
ATOM	37	C	LEU	A 6	42.818	40.701	61.049		
MOTA	38	2	LEU	A 6	43.877	41.226	60.717	1.00 24.60	AAAA
ATOM	39	::	ΞΞ	A 7	42.282	39.704	50.357	1.00 25.90	AAAA
ATOM	40	C.A.		A 7	42.939	39.212	59.173	1.00 26.75	ልልሕሕ
ATOM	41	23	===	A 7	42.839	37.712	59.089	1.00 26.58	አみኡኡ
		532	,	 A 7	43.474	37.227	57.783	1.00 27.88	AAAA
ATCM	1 2				43.528		60.310	1.00 27.02	AAAA
ATOM	43	231		A 7 A 7	43.507	35.640	60.350	1.00 27.46	ልልልል
ATOM	44	CDI	_				57.929	1.00 25.70	ሕሕሕሕ
ATCM	45	0	ΞΞΞ	$\mathbf{A} = 7$	42.339	39.814		1.00 27.68	AAAA
ATOM	46	3	ΞLΞ	A 7	41.162	39.655			AA A
ATOM	17	17	GLY	À 8	43.144		57.142	1.00 27.94	
ATCM	÷8	CA	GLY		42.598			1.00 29.78	AA/A
ATOM	.9	2	3Lï		43.587	41.739	55.027	1.00 30.38	AAAA
	50	ō	GLY	A 8	44.785	41.765	55.264	1.00 29.39	AAAA
ATOM			THR	A 9	43.051			1.00 31.84	AAAA
atom	51	N			43.832			1.00 32.41	AAAA
ATCM	52	CA	THR						AAAA
ATCM	53	23	THR		44.606			1.00 30.74	AAAA
ATOM	54	OG:	LTHR		45.324				AAAA
ATOM	55	CG	2 THR	a 9	43.654				
ATCM	56		THR		42.886	43.939		1.00 32.94	AAAA
	57		THR		41.705	43.625	51.993		AAAA
atom					43.396				AAAA
ATOM	58		LEU		42.573				******
MOTA	59		LEU		. 42.3/3		50.484		AAAA
ATCM	50		LEU	A 10	43.117	47.275	50.309 51 466		AAAA
ATOM	51	CG	LEU	A 10	43.142			1.00 21.00	
ATOM	52		1 LEU	A 10	41.743				AAAA
	63			A 10	44.116			1.00 34.71	AAAA
ATOM	64		בבט		42.527			1.00 33.18	aaaa
ATCM			LEU		41.376			1.00 32.52	بمممد
ATOM	65				43.230				ሕ ሕሕሕ
ATOM	66	::	ASP	A 11	45.230		•		

ATOM	67	CA	ASP A	A 11		43.240	43.489	47.716	1.00 34.24	AAAA
			ASP A			44.393	42.499	47.607	1.00 35.81	AAAA
ATOM	68	CB								
ATOM	69	ÇG	ASP A	4 11		45.739	43.190	47.604	1.00 37.57	AAAA
MOTA	70	OD1	ASP A	A 11		45.890	44.178	46.855	1.00 37.95	AAAA
ATOM	71	OD2	ASP A	A 11		46.650	42.750	48.332	1.00 40.31	AAAA
			ASP A			41.929	42.813	47.341	1.00 34.03	AAAA
ATOM -	72	C								
MOTA	73	0	ASP A			41.629	42.652	46.150	1.00 34.80	AAAA
ATOM	74	N	TYR A	A 12		41.142	42.417	48.335	1.00 32.34	AAAA
	75	CA	TYR A			39.871	41.803	48.017	1.00 32.53	AAAA
MOTA							41.569	49.290	1.00 31.32	AAAA
MOTA	76	CB	TYR A			39.043				
ATOM	77	CG	TYR A	A 12		39.551	40.438	50.162	1.00 29.95	AAAA
ATOM	78	CD1	TYR A	A. 12		39.983	40.669	51.469	1.00 28.52	AAAA
	79	CE1	TYR A			40.413	39.614	52.279-	1.00 28.03	AAAA
ATOM									1.00 28.47	AAAA
ATOM	80	CD2	TYR A			39.568	39.128	49.688		
MOTA	81	CE2	TYR A	A 12		39.992	38.083	50.483	1.00 28.47	AAAA
ATOM	82	CZ	TYR A	A 12		40.408	38.330	51.775	1.00 28.43	- AAAA
ATOM	83	ОН	TYR A			40.786	37.277	52.569	1.00 29.86	AAAA
						39.146	42.749	47.066	1.00 33.16	AAAA
MOTA	84	С	TYR A							
ATOM	85	0	TYR A			38.554	42.324	46.082	1.00 33.36	AAAA
ATOM	86	N	GLY A	A 13	i	39.237	44.041	47.356	1.00 34.76	AAAA
ATOM	87	CA	GLY A	A 13		38.594	45.065	46.546	1.00 36.60	AAAA
						38.814	44.961	45.052	1.00 37.85	AAAA
MOTA	88	C	GLY A							
ATOM	89	0	GLY A	A 13	1	38.105	45.591	44.275	1.00 37.40	AAAA
ATOM	90	N	LYS :	A 14		39.799	44.171	44.647	1.00 39.55	AAAA
ATOM	91	CA	LYS 2	A 14		40.091	43.981	43.231	1.00 40.66	AAAA
	92	CB	LYS			41.605	43.977	42.995	1.00 42.26	AAAA
MOTA						42.300	45.309	43.239	1.00 44.54	AAAA
ATOM	93	CG	LYS .							
ATOM	94	CD	LYS .	A 14		41.820	46.445	42.304	1.00 46.32	AAAA
ATOM	95	CE	LYS .	A 14	1	42.033	46.158	40.810	1.00 46.64	AAAA
ATOM	96	NZ	LYS		Į.	41.133	45.086	40.256	1.00 47.23	AAAA
			LYS			39.499	42.675	42.707	1.00 40.35	AAAA
ATOM	97	C							1.00 39.97	AAAA
ATOM	98	0	LYS .			39.593	42.377	41.511		
ATOM	99	N	TYR .	A 15	5	38.897	41.901	43.605	1.00 39.95	AAAA
ATOM	100	CA	TYR .	A 15	; .	38.300	40.617	43.245	1.00 40.30	AAAA
ATOM	101	CB	TYR			38.962	39.490	44.050	1.00 38.46	AAAA
						40.472	39.519	44.021	1.00 37.01	AAAA
ATOM	102	CG	TYR							AAAA
ATOM	103	CD1	TYR .			41.213	39.136	45.137	1.00 36.24	
ATOM	104	CE1	TYR	A 15	5	42.604	39.220	45.144	1.00 35.73	AAAA
ATOM	105	CD2	TYR	A 1:	5	41.163	39.976	42.902	1.00 36.84	AAAA
ATOM	106	CE2	TYR			42.556	40.064	42.898	1.00 36.53	AAAA
						43.271	39.689	44.028	1.00 36.24	AAAA
ATOM	107	CZ	TYR							AAAA
ATOM	108	OH	TYR			44.648	39.816	44.042	1.00 36.49	
ATOM	109	С	TYR	A 1	5	36.802	40.647	43.556	1.00 41.98	AAAA
ATOM	110	0	TYR	A 1	5	36.288	39.786	44.280	1.00 42.59	AAAA
	111		ARG			36.101	41.638	43.014	1.00 42.81	AAAA
atom		N					41.753	43.257	1.00 43.47	AAAA
MOTA	112	CA	ARG			34.670				
ATOM	113	CB	ARG		5	34.205	43.197	43.111	1.00 45.27	AAAA
ATOM	114	CG	ARG	A 1	5	35.021	44.234	43.833	1.00 48.06	AAAA
ATOM	115	CD	ARG			34.891	44.196	45.339	1.00 49.63	AAAA
						35.632	45.322	45.905	1.00 51.65	AAAA
ATOM	116	NE	ARG							
ATOM	117	CZ	ARG	A 1	5	35.382	46.602	45.622	1.00 52.71	
ATOM	118	NH1	ARG	A 1	5	34.406	46.931	44.781	1.00 53.28	AAAA
MOTA	119		ARG		5	36.124	47.560	46.162	1.00 53.43	AAAA
			ARG			33.913	40.929	42.230	1.00 42.86	AAAA
MOTA	120	С								AAAA
ATOM	121	0	ARG	A 1	5	34.455	40.541	41.193	1.00 41.83	
MOTA	122	N	TYR	A 1	7	32.651	40.668	42.523	1.00 42.42	AAAA
ATOM	123	CA	TYR			31.818	39.942	41.590	1.00 42.76	AAAA
	•					30.675	39.254	42.333	1.00 40.11	AAAA
ATOM	124	CB	TYR						1.00 38.35	AAAA
MOTA	125	CG	TYR			31.097	38.061	43.180		
ATOM	126	CD1	TYR	A 1	7	32.169	38.148	44.071	1.00 36.15	AAAA
	127		TYR			32.519	37.069	44.874	1.00 34.76	AAAA
ATOM						30:386	36.855	43.116	1.00 36.40	AAAA
ATOM	128	CD2						43.912		AAAA
MOTA	129	CE2				30.726	35.776			
MOTA	130	CZ	TYR	A 1	7	31.792	35.887	44.790		AAAA
ATOM	131	OH	TYR		7	32.115	34.814	45.584	1.00 33.29	AAAA
	132	C.	TYR			31.296	41.000	40.613	1.00 44.43	AAAA
ATOM	ندد	C	IIK		•					•
							•			

1 mov	133	0	TYR A		17	31.	346	42	.194		.905		00				AAAA
ATOM ATOM	134		PEO A		18		799	40	.574	39	.440				. 95		AAAA
ATOM	135		PRO A		18	30.	707	39	.175		.994				.08		AAAA
MOTA	136		PRO A		18	30.	268	41	.465		.402				. 24		AAAA
ATOM	137		PRO A		18	29.	.854	40	.482		.312				. 69		AAAA
ATOM	138		PRO A		18		. 876	39	.338	37	.511	_			.79		AAAA
	139		PRO A		18		.129	42	.390		.834				.98		AAAA
ATOM	140		PRO A		18		. 298	42	.020	39	.660	1	.00	49	.11		AAAA
MOTA	141		LYS		19		.114	43	.593	38	. 253				. 59		AAAA
MOTA	142		LYS		19		.125		. 654	38	.519		-		.10		AAAA
MOTA	143		LYS		19		.876	45	.466	37	.246	1	. 00	54	.41		AAAA
ATOM	144		LYS		19		.120	45	.911	36	.498	1	.00	57	.78		AAAA
ATOM	145		LYS .		19		.747		.508	35	.142	1	.00	59	:34		AAAA
MOTA	145		LYS .		19		.978		.774	34	.288				.33		AAAA
MOTA	147		LYS		19		.616		.277	32	.932				03		AAAA
MOTA	148		LYS		19		.764		.162	39	.012	1	.00	51	53		AAAA
ATOM	149	0	LYS		19		.281	44	.556	40	.071	1	.00	51	54		AAAA
ATOM	150	N	ASN		20		.146		3.314	38	.203	1	.00	50).13		AAAA
ATOM	151	CA	ASN		20		.831	42	2.750		.482				3.44		AAAA
MOTA	152	CB	ASN		20		.336	42	2.061	37	1.209	-			9.67		AAAA
ATOM	153	CG	ASN		20	_	.389	4:	1.132	3€	6.613				L.61		AAAA
MOTA	154		ASN		20		. 677	40	0.064	37	7.154				1.70		AAAA
MOTA	155		ASN		20		.998	4:	1.562	35	5.509				3.00		AAAA
MOTA	156	C	ASN		20		.789	4:	1.765	39	649	1	.00	4 9	5.57	7	AAAA
MOTA	157	0	ASN		20	_	.764	4	1.127	3 9	9.877				4.67		AAAA
MOTA	158	N	HIS		21		.883	4	1.662	40	398				2.71		AAAA
MOTA	159	CA	HIS		21		.958	4	0.709	41	1.506				0.69		AAAA
MOTA	160	CB	HIS		21		.216	3	9.857	4:	1.353				0.16		AAAA
MOTA	161	CG	HIS		21		.186	3	8.587	42	2.140				9.93		AAAA
MOTA MOTA	162		HIS		21	27	.329	3	8.353	4:	3.467				9.27		AAAA
ATOM	163		HIS		21		.951	3	7.359		1.557				9.4		AAAA
ATOM	164		HIS		21	26	.948	3	6.425	4:	2.493				9.30		AAAA
MOTA	165		HIS		21	27	.174	3	7.003	•	3.660				9.4		AAAA
MOTA	166	C	HIS		21	25	.974	4	1.349		2.892	1	00	3	8.93	3	AAAA
MOTA	167	<u>o</u> .	HIS		21	26	.660	4	2.338		3.116				8.7		AAAA
ATOM	168	N	PRO		22	25	.229	4	0.778		3.853	1	L . O	0 3	7.1	1	AAAA
ATOM	169	CD	PRO		22	24	.371		9.579		3.814	-	L.0	0 3	6.0	9	AAAA
ATOM	170	CA	PRO		22	25	.224	4	1.361		5.199				5.8		AAAA
MOTA	171	CB	PRO	Α	22		1.473		0.306		6.012				6.0		AAAA
MOTA	172	CG	PRO	Α	22		3.464		9.810		5.003				6.1		AAAA AAAA
ATOM	173	С	PRO	Α	22		5.638		1.637		5.751				4.3		AAAA
ATOM	174	O	PRO	Α	22		5.867		2.653		6.417				4.0		AAAA
ATOM	175	N	LEU	Α	23		7.572		0.731		5.451				1.9		AAAA
ATOM	176	CA	LEU	Α	23		3.954		0.827		5.900				9.6		AAAA
ATOM	177	CB	LEU	Α	23		9.564		9.432		6.014		1.0	0 2	27.8 27.3	1	AAAA
MOTA	178	CG	LEU	Α	23		3.896		8.528		7.048		1.0	0 4	: / . 3 26 . 6	<u>.</u>	TAAA
ATOM	179	CD1	LEU	Α	23		9.656		7.217		7.149				26.7		AAAA '
ATOM	180	CD2	LEU	Α	23		8.879		9.212		8.399				29.2		AAAA
ATOM	181	C	LEU		23		9.838		1.709		5.018				28.3		AAAA
ATOM	182	Ō	LEU	Α	23		1.057		1.606		5.028	,	1.0	0 2	29.2	7	AAAA
MOTA	183	N	LYS	Α	24	2	9.204		2.582		4.259		1.0	0 4	29.3	. ,	AAAA
ATOM	184	CA	LYS	Α	24		9.903		3.512		3.389				29.7 29.7		AAAA
MOTA	185	CB	LYS	Α	24		8.881		4.09		12.405 11.601				32.5		AAAA
MOTA	186	CG	LYS	A	24		9.328		5.26						34.3		AAAA
ATOM	187	CD	LYS	Α	24		8.537		6.52		11.994				34.3		AAAA
ATOM	188	CE	LYS	Α	24		7.025		16.33		11.835				34.3		AAAA
ATOM	189	NZ	LYS	Α	24	_	6.221		17.54		12.208				28.1		AAAA
ATOM	190	С	LYS		24		0.580		14.62		14.224						AAAA
ATOM	191	0	LYS		24		1.617		15:16		13.840		1.1	יט . זר	27.9 27.0) J	AAAA
ATOM	192	N	ILE		25		9.990		44.91		15.37				27.(25.8		AAAA
MOTA	193	CA	ILE		25		0.468		15.94		46.29		1.6	70	25.0 25.0	37	AAAA
ATOM	194	CB	ILE	A	25		9.42		46.26		47.36		1.	70	25 25.	7 1	AAAA
ATOM	195	CG2	2 ILE	A	25		8.19		46.84		46.73		1.) ()) ()	25.:	26	AAAA
ATOM	196	CG1	l ILE	A	25		9.14		44.97		48.15		1.) (25.	20 17 ·	AAAA
ATOM	197		l ILE				8.31		45.16	_	49.41		1.1) (I	25.: 25.:	28	AAAA
ATOM	198		ILE	A	25	3	1.70	U	45.55	U :	47.09	J	Ι.,	UU	23	20	

Figure 19-4

ATOM	199	Э	ILE 2	3 25	32.037	44.379	47.183	1.00 24.48	AAAA
ATOM	200	N	PRO A		32.375	46.547	47.714	1.00 24.98	
			_		+				AAAA
MOTA	201	CD	PRO A		32.062	47.980	47.638	1.00 24.98	AAAA
MOTA	202	CA	PRO A	A 26	33.570	46.367	48.543	1.00 24.44	AAAA
ATOM	203	CB	PRO 2		34.094	47.792	48.701	1.00 24.75	
									AAAA
MOTA	204	CG	PRO A	4 26	33.435	48.546	47.538	1.00 25.51	AAAA
ATOM	205	C	PRO A	A 26	33.021	45.838	49.862	1.00 23.42	AAAA
					31.930		50.272		
ATOM	206	O	PRO A			46.233		1.00 22.12	AAAA
ATOM	207	N	ARG A	27	33.754	44.960	50.532	1.00 23.06	AAAA
MOTA	208	CA	ARG A	27	33.244	44.421	51.776	1.00 23.04	٨٨٨٨
							51.492		
MOTA	209	CB	ARG A		32.633	43.043		1.00 22.20	AAAA
MOTA	210	CG	ARG A	4 27	31.463	43.152	50.503	1.00 19.84	AAAA
ATOM	211	CD	ARG A	27	30.762	41.844	50.160	1.00 18.64	AAAA
							51.315		
ATOM	212	NE	ARG A		30.181	41.168		1.00 16.51	AAAA
ATOM	213	cz	ARG A	27	30.774	40.188	51.982	1.00 16.57	АААА
ATOM	214	NH1	ARG A	A 27	31.969	39.763	51.605	1.00 17.50	AAAA
	215		ARG A		30.185	39.643	53.038	1.00 16.45	
ATOM									AAAA
MOTA	216	С	ARG A	A 27	34.265	44.381	52.905	1.00 23.62	AAAA
ATOM	217	0	ARG A	27	34.107	45.077	53.919	1.00 23.69	AAAA
	218	N	VAL A		35.305	43.570	52.736	1.00 24.25	
MOTA									AAAA
MOTA	219	CA	VAL A		36.355	43.466	53.737	1.00 23.36	AAAA
ATOM	220	CB	VAL A	A 28	37.022	42.062	53.671	1.00 22.75	AAAA
ATOM	221		VAL A		38.292	42.031	54.475	1.00 22.95	AAAA
ATOM	222		VAL 3		36.061	41.011	54.249	1.00 22.20	AAAA
ATOM	223	С	VAL A	28	37.363	44.609	53.511	1.00 23.70	Añññ
ATOM	224	O	VAL A	A 28	37.943	45.156	54.455	1.00 22.62	ለአአአ
ATOM	225	24	SER A		37.538	44.989	52.253	1.00 24.27	AAAA
ATOM	226	CA	SER A	A 29	38.444	46.082	51.910	1.00 26.03	AAAA
ATOM	227	CB	SER A	A 29	38.632	46.178	50.381	1.00 25.95	AAAA
	228		SER A		37.395	46.417	49.716	1.00 27.57	
ATOM		OG							AAAA
ATOM	229	С	SER A	A 29	37.793	47.354	52.440	1.00 25.52	aaaa
ATOM	230	0	SER A	A 29	38.463	48.311	52.828	1.00 25.49	AAAA
ATOM	231	N	LEU A		36.468	47.342	52.448	1.00 26.09	AAAA
MOTA	232	CA	LEU A		35.692	48.471	52.926	1.00 26.39	AAAA
ATOM	233	CB	LEU A	30	34.262	48.365	52.393	1.00 25.89	AAAA
ATOM	234	CG	LEU A		33.265	49.470	52.755	1.00 27.15	AAAA
ATOM	235		LEU A		32.486	49.101	53.999	1.00 26.34	AAAA
MOTA	236	CD2	LEU A	30	34.015	50.813	52.897	1.00 25.81	AAAA
MOTA	237	С	LEU A	A 30	35.713	48.534	54.453	1.00 26.26	AAAA
			LEU A						
ATOM	238	o			35.731	49.612	55.037	1.00 27.50	AAAA
ATOM	239	N	LEU 2	31	35.730	47.379	55.097	1.00 25.57	AAAA
ATOM	240	CA	LEU A	31	35.776	47.343	56.545	1.00 26.87	AAAA
ATOM	241	CB	LEU A		35.752	45.900	57.029	1.00 27.28	AAAA
ATOM	242	CG	LEU A		35.135	45.563	58.383	1.00 27.87	AAAA
ATOM	243	CD1	LEU ?	A 31	35.855	44.313	58.90 6	1.00 27.01	AAAA
ATOM	244	CD2	LEU A	31	35 261	46.706	59.372	1.00 26.32	AAAA
					37.087		57.012	1.00 28.08	
ATCM	245	C	LEU A			48.003			AAAA
MOTA	246	0	LEU A	31	37 094	48.854	57.901	1.00 27.42	AAAA
ATOM	247	N	LEU 2	32	38.197	47.584	56.409	1.00 29.52	AAAA
	248	CA	LEU A		39.508	48.121	56.750	1.00 30.96	AAAA
ATOM									
MOTA	249	CB	LEU A		40.607	47.394	55.950	1.00 31.58	AAAA
ATOM	250	CG	LEU A	32	40.792	45.904	56.293	1.00 31.63	AAAA
ATOM	251		LEU A		41.810	45.246	55.380	1.00 31.31	AAAA
ATOM	252		LEU A		41.232	45.780	57.743	1.00 32.23	AAAA
ATOM	253	С	LEU A	32	39.599	49.635	56.543	1.00 31.59	AAAA
ATCM	254	0	LEU A		40.081	50.345	57.416	1.00 31.70	AAAA
MOTA	255	N	ARG A		39.140	50.129	55.398	1.00 32.72	AAAA
MOTA	256	CA	ARG A	33	39.178	51.564	55.141	1.00 33.91	AAAA
ATOM	257	CB	ARG 3		38.643	51.903	53.743	1.00 35.10	AAAA
					39.627		52.621	1.00 37.84	
atom	258	CG	ARG A			51.609			AAAA
ATCM	259	CD	ARG A	4 33	39.310	52.412	51.374	1.00 39.33	ል ልፌ
ATOM	260	NE	ARG A	A 33	38.255	51.806	50.580	1.00 42.51	AAA
	261	cz	ARG :		37.662	52.395	49.541	1.00 44.22	AAAA
MOTA									
ATOM	262		ARG A		38.016	53.617	49.163	1.00 44.61	AAAA
ATOM	263	NH2	ARG 2	33	36.723.	51.752	48.861	1.00 45.23	AAAA
ATCM	264	С	ARG A		38.352	52.305	56.168	1.00 33.48	AÁAA
71011		-							

	265	_		2.2	•	38.713	53.390	56.592	1.00 33.61	AAAA
MOTA	265		ARG A	33			51.682	56.562	1.00 33.78	AAAA
MOTA	266		PHE A	34		37.247				
ATOM	267	CA	PHE A	34		36.292	52.233	57.517	1.00 33.79	AAAA
ATOM	268	CB	PHE A	34		35.065	51.310	57.573	1.00 33.88	AAAA
ATOM	269	CG	PHE A	34		33.925	51.840	58.405	1.00 33.16	AAAA
	270		PHE A	34		33.108	52.856	57.925	1.00 32.77	AAAA
ATOM						33.668	51.315	59.672	1.00 33.05	AAAA
atom	271	_	PHE A	34				58.695	1.00 32.86	AAAA
ATOM	272		PHE A	34		32.044	53.343			
MOTA	273	CE2	PHE A	34		32.607	51.797	60.454	1.00 33.07	AAAA
ATOM	274	CZ	PHE A	34		31.794	52.809	59.966	1.00 32.58	AAAA
ATOM	275	С	PHE A	34	_	36.881	52.414	58.918	1.00 34.01	AAAA
ATOM	276		PHE A	34 .		36.903	53.524	59.455	1.00 33.49	АААҚ
	277		LYS A	35		37.350	51.324	59.516	1.00 34.00	AAAA
MOTA						37.928	51.401	60.843	1.00 33.90	AAAA
MOTA	278		LYS A	35			50.010	61.362	1.00 34.07	AAAA
MOTA	279		LYS A	35		38.230				AAAA
ATOM	280		LYS A	35		37.000	49.190	61.662	1.00 33.94	
MOTA	281	CD	LYS A	35		37.414	47.810	62.106	1.00 35.31	AAAA
ATOM	282	CE	LYS A	35		38.062	47.072	60.948	1.00 35.91	AAAA
ATOM	283		LYS A	35		39.058	47.928	60.236	1.00 36.19	AAAA
ATOM	284	C	LYS A	35		39.185	52.255	60.881	1.00 34.19	AAAA
			LYS A	35		39.554	52.775	61.929	1.00 34.32	AAAA
ATOM	285	0				39.853	52.384	59.745	1.00 33.99	AAAA
ATOM	286	N	ASP A	36					1.00 35.17	AAAA
ATOM	287	CA	ASP A	36		41.034	53.216	59.680		
MOTA	288	CB	ASP A	36		41.812	52.943	58.388	1.00 37.40	AAAA
ATOM	289	CG	ASP A	36		42.964	53.908	58.186	1.00 38.64	AAAA
ATOM	290		ASP A	36		43.648	54.218	59.184	1.00 40.02	AAAA
ATOM	291		ASP A	36		43.201	54.341	57.035	1.00 38.74	AAAA
	292	C	ASP A	36		40.568	54.670	59.724	1.00 35.85	AAAA
MOTA					•	41.231	55.527	60.306	1.00 36.88	AAAA
ATOM	293	0	ASP A	36			54.940	59.111	1.00 34.96	AAAA
ATOM-	294	N	ALA A	37		39.420			1.00 34.47	AAAA
ATOM	295	CA	ALA A	37		38.851	56.280	59.108		
ATOM	296	CB	ALA A	37		37.751	56.373	58.067	1.00 33.80	AAAA
MOTA	297	С	ALA A	37		38.291	56.617	60.499	1.00 34.66	AAAA
ATOM	298	0	ALA A	37		38.268	57.7 79	60.899	1.00 34.55	AAAA
ATOM	299	N	MET A	3.8		37.830	55.600	61.226	1.00 34.24	AAAA
	300	CA	MET A	38		37.287	55.794	62.572	1.00 33.07	AAAA
MOTA			MET A	38		36.289	54.687	62.917	1.00 32.82	AAAA
MOTA	301	CB					54.559	61.996	1.00 32.72	AAAA
MOTA	302	CG	MET A	38		35.084		62.101	1.00 33.65	AAAA
ATOM	303	SD	MET A	38		33.980	55.948			AAAA
ATOM	304	CE	MET A	38		33.550	55.878	63.849	1.00 33.77	
ATOM	305	С	MET A	38		38.430	55.724	63.583	1.00 33.12	AAAA
ATOM	306	0	MET A	38		38.226	55.930	64.777	1.00 32.82	٨٨٨٨
ATOM	307	N	ASN A	3 9		39.628	55.428	63.090	1.00 32.64	AAAA
ATOM	308	CA	ASN A	39		40.805	55.266	63.935	1.00 32.38	AAAA
	309	CB	ASN A	39		41.200	56.600	64.589	1.00 32.93	AAAA
ATOM						41.393	57.736	63.571	1.00 34.40	AAAA
MOTA	310	CG	ASN A	39		42.180	57.624	62.630	1.00 34.98	AAAA
MOTA	311		ASN A	39				63.772	1.00 33.52	AAAA
ATOM	312	ND2	ASN A	39		40.677	58.838		1.00 31.69	AAAA
ATOM	313	С	ASN A	39		40.483	54.212	65.009	1.00 31.03	
ATOM	314	0	ASN A	39		40.565	54.490	66.205	1.00 31.12	AAAA
ATOM	315	N	LEU A	40		40.095	53.010	64.570		AAAA
MOTA	316	CA	LEU A	40		39.750	51.898	65.474	1.00 32.48	AAAA
	317	CB	LEU A	40		38.259	51.559	65.386	1.00 32.55	AAAA
MOTA				40		37.231	52.581	65.879	1.00 32.84	AAAA
MOTA	.318	CG	LEU A			35.837	52.089	65.554	1.00 33.79	AAAA
ATOM	319		LEU A	40				67.376	1.00 32.45	AAAA
MOTA	320	CD2	LEU A	40		37.372	52.798		1.00 32.92	AAAA
ATOM	321	C	LEU A	40		40.555		65.187		
ATOM	322	0	LEU A	40		40.196	49.530	65.618	1.00 31.64	AAAA
ATOM	323	N	ILE A	41		41.652	50.794	64.464	1.00 34.12	AAAA
	324	CA	ILE A	41		42.508	49.680	64.116	1.00 36.07	AAAA
ATOM			ILE A			42.017	48.991	62.811	1.00 35.51	АААА
ATOM	325	CB				42.070	49.952	61.636	1.00 33.37	AAAA
ATOM	326		ILE A	41		42.898		62.480	1.00 35.97	AAAA
ATOM	327		ILE A				47.790		1.00 37.19	AAAA
MOTA	328		ILE A			42.854	46.701	63.500	1 00 30 05	AAAA
ATOM	329	С	ILE A	41		43.921	50.226		1.00 38.85	
ATOM	330	0	ILE A	41		44.106	51.346	63.413	1.00 38.98	AAAA
	·							•		•

Figure 19-6

ATOM	331	N	ASP A	42	44.914	49.446	64.329	1.00 40.61	AAAA
ATOM	332	CA	AŞP A	42	46.309	49.843	64.181	1.00 42.57	AAAA
ATOM	333	CB	ASP A	42	46.973	50.021	65.553	1.00 42.42	AAAA
MOTA	334	CG	ASP A	42	46.316	51.110	66.381	1.00 42.27	AAAA
ATOM	335	OD1	ASP A	42	46.227	52.250	65.883	1.00 41.20	AAAA
ATOM.	336	OD2	ASP A	42	45.891	50.833	67.526	1.00 43.36	AAAA
ATOM	337	С	ASP A	42	47.011	48.752	63.392	1.00 44.05	AAAA
ATOM	338	0	ASP A	42	46.525	47.620	63.333	1.00 44.88	AAAA
ATOM	339	N	GLU A	. 43	48.147	49.090	62.789	1.00 45.10	AAAA
ATOM	340	CA	GLU A	43	48.905	48.141	61.980	1.00 46.11	AAAA
ATOM	341	CB	GLU A	43	50.172	48.796	61.454	1.00 46.89	AAAA
ATOM	342	CG	GLU A	43	49.924	50.057	60.668	1.00 49.30	AAAA
ATOM	343	CD	GLU A	43	· 51.187	50.580	60.028	1.00 49.67	AAAA
ATOM	344	OE1	GLU A	43	51.760	49.839	59.201	1.00 50.60	AAAA
ATOM	345	OE2	GLU A	43	51.601	51.714	60.349	1.00 49.60	AAAA
ATOM	346	С	GLU A	43	49.290	46.859	62.701	1.00 46.27	· - AAAA
MOTA	347	0	GLU A	43	49.214	45.773	62.131	1.00 46.00	AAAA
ATOM	348	N	LYS A	44	49.708	46.986	63.954	1.00 46.52	AAAA
MOTA	349	CA	LYS A	44	50.135	45.832	64.730	1.00 46.31	AAAA
MOTA	350	CB	LYS A	44	50.762	46.306	66.048	1.00 48.16	AAAA
ATOM	351	CG	LYS A	44	51.977	47.215	65.799	1.00 51.59	AAAA
MOTA	352	CD	LYS A	44	52.641	47.734	67.071	1.00 52.87	AAAA
MOTA	353	CE	LYS A	44	53.851	48.601	66.727	1.00 53.34	AAAA
ATOM	354	NZ	LYS A	44	54.615	49.033	67.936	1.00 53.45	AAAA
ATOM	355	С	LYS A	44	49.029	44.828	64.996	1.00 44.74	AAAA
ATOM	356	0	LYS A	44	49.296	43.735	65.480	1.00 45.35	AAAA
ATOM	357	N	GLU A	45	47.793		64.659	1.00 42.49	AAAA
ATOM	358	CA	GLU A	45	46.638	44.320	64.894	1.00 40.54	AAAA
ATOM	359	CB	GLU A	45	45.493	45.125	65.517	1.00 40.55	AAAA
atom	360	CG	GLU A	45	45.788	45.731	66.882	1.00 38.87	AAAA
MOTA	361	CD	GLU A			46.618	67.360	1.00 37.57	AAAA
ATOM	362		GLU A		44.383	47.631	66.693	1.00 36.29	AAAA
ATOM	363		GLU A	45	44.056	46.300	68.399	1.00 38.44	AAAA
ATOM	364	C	GLU A		46.126	43.648	63.630	1.00 39.15	AAAA
ATOM	365	0	GLU A	45	45.301	42.737	63.681	1.00 39.29	AAAA
ATOM	366	N	LEU A	46	46.619	44.115	62.497	1.00 37.62	AAAA
MOTA	367	CA	LEU A		46.219	43.589 44.750	61.211 60.229	1.00 35.88 1.00 36.09	AAAA AAAA
MOTA	368 369	CB CG	LEU A	46	46.125 45.608	44.750	.58.817	1.00 36.50	AAAA
ATOM ATOM	370		LEU A	46 46	44.182	44.021	58.843	1.00 36.66	AAAA
ATOM	371		LEU A	46	45.646	45.893	58.113	1.00 35.85	AAAA
ATOM	372	c	LEU A	46	47.211	42.542	60.714	1.00 34.97	AAAA
ATOM	373	Ö	LEU A		48.424	42.670	60.900	1.00 35.72	AAAA
ATOM	374	N	ILE A		46.680	41.484	60.118	1.00 33.25	AAAA
ATOM	375	CA	ILE A		47.497	40.411	59.560	1.00 30.92	AAAA
ATOM	376	CB				39.024		1.00 31.22	AAAA
ATOM	377		ILE A		48.093		59.640	1.00 28.55	AAAA
ATOM	378		ILE A		47.220		61.694	1.00 32.04	AAAA
ATOM	379		ILE A		48.596	39.241	62.242	1.00 34.13	AAAA
ATOM	380	С	ILE A		47.138	40.381	58.076	1.00 29.70	AAAA
ATOM	381	Ö	ILE A		45.956	40.373	57.714	1.00 28.42	AAAA
ATOM	382	N	LYS A		48.150	40.380	57.221	1.00 28.78	AAAA
ATOM	383	CA	LYS A	48	47.920	40.349	55.784	1.00 28.42	AAAA
ATOM	384	CB	LYS A	48	49.203	40.727	55.055	1.00 27.53	AAAA
MOTA	385	CG	LYS A	48	49.116	40.695	53.556	1.00 28.97	AAAA
ATOM	386	CD	LYS A	48	50.464	41.104	52.941	1.00 29.67	AAAA
ATOM	387	CE	LYS A		50.493	40.893	51.432	1.00 29.41	AAAA
ATOM	388	NZ	LYS A	48	49.409	41.645	50.764	1.00 29.68	AAAA
ATOM	389	С	LYS A	48	47.449	38.950	55.375	1.00 27.81	AAAA
ATOM	390	0	LYS A	48	48.024	37.938	55.787	1.00 27.96	AAAA
ATOM	391	N	SER A		46.385	38.892	54.581	1.00 26.82	AAAA
ATOM	392	CA	SER A		45.854	37.611	54.141	1.00 26.41	AAAA
ATOM	393	CB	SER A		44.514	37.795	53.420	1.00 25.40	AAAA
ATOM	394	OG	SER A		43.541	38.349	54.276	1.00 25.58	AAAA
ATOM	395	С	SER A		46.814	36.891	53.207	1.00 26.03	AAAA
ATOM	396	0	SER A	49	47.462	37.513	52.373	1.00 26.98	AAAA

ATOM	397	N	ARG A	50	46.910	35.576	53.354	1.00 25.51	AAAA
ATOM	398	CA	ARG A	50	47.755	34.794	52.474	1.00 25.45	AAAA
ATOM	399	CB	ARG A	50	48.807	33.985	53.252	1.00 25.85	AAAA
ATOM	400	CG	ARG A	50	48.229	32.819	54.009	1.00 27.16	AAAA
ATOM	401	CD	ARG A	50	49.280	31.995	54.720	1.00 27.57	AAAA
ATOM	402	NE	ARG A	50	48.673	30.896	55.482	1.00 27.90	AAAA
ATOM	403	CZ	ARG A	50	48.106	29.820	54.946	1.00 28.34	AAAA
ATOM	404	NH1	ARG A	50	48.055	29.672	53.630	1.00 28.19	AAAA
ATOM	405	NH2	ARG A	50	47.592	28.884	55.735	1.00 28.62	AAAA
MOTA	406	С	ARG A	50	46.806	33.834	51.762	1.00 24.91	AAAA
ATOM	407	0	ARG A	50	45.740	33.510	52.283	1.00 23.57	AAAA AAAA
ATOM	408	N	PRO A	51	47.172	33.392	50.549	1.00 24.28	AAAA
ATOM	409	CD	PRO A	51	48.361	33.761	49.770 49.776	1.00 24.13 1.00 24.18	AAAA
MOTA	410	CA	PRO A	51	46.355	32.462 32.512	48.390	1.00 24.18	AAAA
MOTA	411	CB	PRO A	51	47.012 47.766	33.862	48.405	1.00 24.11	AAAA
ATOM	412	CG	PRO A	51	46.473	31.070	50.393	1.00 23.69	AAAA
MOTA	413	С	PRO A	51 51	47.545	30.680	50.839	1.00 24.13	AAAA
MOTA	414	0	PRO A ALA A	52	45.381	30.325	50.422	1.00 23.36	AAAA
MOTA	415	N CA	ALA A	52	45.419	28.972	50.952	1.00 23.64	AAAA
ATOM	416 417	CB	ALA A	52	44.012	28.405	51.029	1.00 23.86	AAAA
MOTA	418	C	ALA A	52	46.260	28.145	49.994	1.00 23.58	AAAA
MOTA	419	0	ALA A	52	46.240	28.383	48.806	1.00 24.52	AAAA
MOTA MOTA	420	N	THR A	53	47.009	27.185	50.501	1.00 24.41	AAAA
ATOM	421	CA	THR A	53	47.815	26.352	49.628	1.00 26.26	AAAA
ATOM	422	CB	THR A	53	48.933	25.642	50.405	1.00 26.37	AAAA
ATOM	423		THR A	53	48.355	24.763	51.375	1.00 26.51	AAAA
ATOM	424		THR A	53	49.810	26.648	51.106	1.00 24.48	AAAA
MOTA	425	С	THR A	53	46.889	25.299	49.034	1.00 27.63	AAAA
ATOM	426	0	THR A	53	45.870	24.982	49.620	1.00 29.22	AAAA
MOTA	427	N	LYS A	54	47.240	24.776	47.867	1.00 29.31	AAAA AAAA
ATOM	428	CA	LYS A	54	46.450	23.752	47.189	1.00 30.61	AAAA
ATOM	429	CB	LYS A	54	47.249	23.182	46.015 45.304	1.00 31.68 1.00 34.38	AAAA
ATOM	430	CG	LYS A	54 .	46.585	22.020 22.464	44.417	1.00 34.38	AAAA
ATOM	431	CD	LYS A	54	45.449 45.943	22.850	43.025	1.00 37.55	AAAA
MOTA	432	CE	LYS A	54 54	46.425	21.664	42.236	1.00 37.57	AAAA
MOTA	433	NZ	LYS A	54	46.127	22.640	48.170	1.00 31.26	AAAA
MOTA	434 435	С 0	LYS A	54	45.025	22.097	48.176	1.00 31.72	AAAA
MOTA MOTA	436	N	GLU A	55	47,102	22.312	49.006	1.00 31.88	AAAA
ATOM	437	CA	GLU A	55	46.961	21.260	50.011	1.00 32.29	AAAA
ATOM	438	CB	GLU A	55	48.266	21.089	50.778	1.00 34.43	AAAA
ATOM	439	CG	GLU A	55	48.265	19.901	51.706	1.00 38.39	AAAA
MOTA	440	CD	GLU A	55	49.513	19.839	52.584	1.00 41.46	AAAA
MOTA	441		GLU A	55	49.745	18.770	53.200	1.00 43.30	AAAA ·
MOTA	442	OE2	GLU A	55	50.245	20.859	52.672	1.00 42.45	AAAA AAAA
MOTA	443	C	GLU A	55	45.851	21.555	51.013	1.00 30.43 1.00 30.59	AAAA
MOTA	444	0	GLU A	55	45.048	20.681	51.332 51.517	1.00 28.23	AAAA
MOTA	445	N	GLU A		45.822	22.782 23.164	52.488	1.00 27.69	AAAA
MOTA	446	CA	GLU A	56	44.812 45.078	24.588	52.989	1.00 27.90	AAAA
MOTA	147	CB	GLU A	56	46.434	24.721	53.670	1.00 26.64	AAAA
MOTA	448	CG	GLU A GLU A	56 56	46.769	26.135	54.098	1.00 26.35	AAAA
MOTA	449	CD	GLU A		46.615	27.057	53.265	1.00 25.12	AAAA
ATOM	≟ 50 451	051	GLU A	56	47.213	26.315	55.255	1.00 25.70	AAAA
ATOM	452	C	GLU A	56	43.408	23.043	51.914	1.00 26.99	AAAA
ATOM	453	o	GLU A	56	42.495	22.574	52.588	1.00 26.25	AAAA
MOTA MOTA	454	N	LEU A		43.252	23.447	50.659	1.00 27.26	AAAA
ATOM	455	CA	LEU A		41.965	23.389	49.967	1.00 27.17	AAAA
ATOM	456	СВ	LEU A		42.077	24.063	48.596		AAAA
ATOM	457	CG	LEU A		42.491	25.545			AAAA
ATOM	458		LEU A	57	42.770	26.108	47.269		AAAA
ATOM	459	CD2	LEU A		41.389	26.341	49.349		AAAA AAA A
ATOM	460	С	LEU A		41.552	21.946	49.796		AAAA
ATOM	461	0	LEU A		40.363	21.612			AAAA
atom	462	N	LEU A	58	42.547	21.085	49.641	1.00 21.42	
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Figure 19-8

ATOM	463	CA	LEU A	A 58	42.293	19.675	49.457	1.00 26.10	AAAA
ATOM	464	CB	LEU A		43.486	19.019	48.794	1.00 25.43	AAAA
ATOM	465	CG	LEU			19.577			
					43.623		47.385	1.00 26.66	AAAA
ATOM	466		LEU A		44.760	18.884	46.705	1.00 27.12	AAAA
ATOM	467	CD2	LEU A	8 A	42.334	19.355	46.600	1.00 26.43	AAAA
ATOM	468	С	LEU A	A 58	41.938	18.956	50.731	1.00 25.79	AAAA
ATOM	469	ŏ	LEU		41.648	17.763	50.692	1.00 26.50	
		_							AAAA
ATOM	470	N	LEU A		41.977	19.666	51.858	1.00 24.91	AAAA
ATOM	471	CA	LEU A	A 59	41.595	19.070	53.136	1.00 25.15	AAAA
ATOM	472	CB	LEU A	A 59	41.958	19.991	54.322	1.00 25.44	AAAA
ATOM	473	CG	LEU A		43.423	20.280	54.710	1.00 24.67	
									AAAA
MOTA	474		LEU A		43.502	21.461	55.652	1.00 23.70	AAAA
MOTA	475	CD2	LEU A	A 59	44.044	19.044	55.357	1.00 24.08	AAAA
ATOM	476	С	LEU A	A 59	40.074	18.870	53.090	1.00 25.41	AAAA
ATOM	477	0	LEU A	A 59	39.503	18.266	53.993	1.00 25.88	AAAA
ATOM	478	N	PHE A		39.436	19.392	52.031	1.00 25.05	
									AAAA
MOTA	479	CA	PHE A		37.983	19.276	51.823	1.00 24.11	AAAA
MOTA	480	CB	PHE A	A 60	37.250	20.476	52.440	1.00 21.80	AAAA
ATOM	481	CG	PHE A	A 60	35.778	20.534	52.098	1.00 20.07	AAAA
ATOM	482	CD1	PHE A	A 60	34.917	19.501	52.462	1.00 19.27	AAAA
ATOM	483		PHE A		35.249	21.628	51.399	1.00 19.82	
									AAAA
MOTA	484		PHE A		33.550	19.557	52.136	1.00 19.26	AAAA
MOTA	485	CE2	PHE A		33.890	21.688	51.071	1.00 17.45	AAAA
ATOM	486	CZ	PHE A	A 60	33.042	20.652	51.440	1.00 17.92	AAAA
ATOM	487	C	PHE A	A 60	37.557	19.139	50.345	1.00 24.02	AAAA
ATOM	488	0	PHE A		36.846	18.201	49.974	1.00 23.27	AAAA
ATOM	489	N	HIS A		37.982	20.079	49.511	1.00 24.40	
									AAAA
MOTA	490	CA	HIS A		37.626	20.053	48.099	1.00 25.04	AAAA
ATOM	491	CB	HIS A	A 61	37.768	21.449	47.494	1.00 24.19	AAAA
MOTA	492	CG	HIS A	A 61	36.744	22.429	47.979	1.00 24.44	AAAA
ATOM	493	CD2	HIS A	A 61	35.429	22.559	47.683	1.00 24.12	AAAA
ATOM	494		HIS A		37.038	23.444	48.864	1.00 24.36	
									AAAA
ATOM	495		HIS A		35.952	24.159.		1.00 23.18	AAAA
ATOM	496		HIS A	4 61	34.962	23.643	48.385	1.00 23.91	AAAA
ATOM	497	C	HIS A	4 61	38.416	19.054	47.253	1.00 25.60	AAAA
ATOM	498	0	HIS 2	A 61	39.596	18.805	47.498	1.00 26.94	AAAA
ATOM	499	N	THR A		37.754	18.496	46.244	1.00 26.68	AAAA
ATOM	500	CA	THR A		38.369	17.522	45.333	1.00 28.17	AAAA
ATOM	501	CB	THR A		37.290	16.695	44.614	1.00 28.15	AAAA
ATOM	502	OG1	THR A	A 62	36.544	17.541	43.731	1.00 28.10	AAAA
ATOM	503	CG2	THR A	A 62	36.334	16.094	45.629	1.00 28.24	AAAA
ATOM	504	C	THR A	4 62	39.226	18.217	44.278	1.00 29.28	AAAA
ATOM	505	0	THR A		38.876	19.286	43.792	1.00 29.52	AAAA
ATOM	506	N			40.344	17.606	43.912	1.00 31.33	
			GLU 3						AAAA
MOTA	507	ÇĄ	GLU A		41.249	18.202	42.928	1.00 32.42	AAAA
ATOM	508	CB	GLU A	A 63	42.333	17.219	42.536	1 00 34.37	AAAA
ATOM	509	CG	GLU A	4 63	43.304	16.869	43.609	1 00 37.20	AAAA
ATOM	510	CD	GLU A		44.427	16.022	43.052	1 00 38.79	AAAA
ATOM	511		GLU A		45.100	16.499	42.097	1.00 37.96	AAAA
MOTA	512		GLU A		44.619	14.892	43.564	1.00 39.68	AAAA
ATOM	513	C	GLU A		40.607	18.687	41.639		AAAA
ATOM	514	0	GLU A	4 63	40.824	19.816	41.215	1.00 32.10	AAAA
ATOM	515	N	ASP A	4 64	39.845	17.814	40.998	1.00 31.52	AAAA
ATOM	516	CA	ASP A		39.204	18.165	39.753	1.00 31.36	AAAA
			ASP A				39.295		
ATOM	517	CB			38.301	17.018		1.00 33.99	AAAA
ATOM	518	CG	ASP A		37.213	16.694	40.302	1.00 37.38	AAAA
ATOM	519		ASP A		36.375	15.801	40.027	1.00 39.80	AAAA
MOTA	520	op2	ASP A	64	37.188	17.332	41.374	1.00 38.67	AAAA
ATOM	521	С	ASP A		38.412	19.465	39.902	1.00 30.02	AAAA
	522	5	ASP A		38.462	20.331	39.026	1.00 30.47	AAAA
ATOM									
ATOM	523	N	TYR A	_	37.695	19.608	41.012	1.00 27.51	AAAA
ATCM	524	CA	TYR A	_	36.918	20.814	41.248	1.00 26.03	AAAA
ATOM	525	CB	TYR A	4 65	36.010	20.654	42.467	1.00 25.42	AAAA
ATCM	526	CG	TYR A		35.339	21.946	42.866	1.00 24.90	AAAA
ATOM	527		TYR A		34.525	22.636	41.964	1.00 25.04	AAAA
	528		TYR A		33.914	23.823	42.308	1.00 25.01	AAAA.
ATOM	J O	C21	TIN		22.214	23.023		4.00 20.01	
									•

Figure 19-9

ATOM	529	CD2	TYR	A	65	35.525	22.486	44.136	1.00 24.65	AAAA
ATOM	530	CE2	TYR		65	34.920	23.677	44.497	1.00 25.86	AAAA
MOTA	531	CZ	TYR		65	34.110	24.349	43.576	1.00 26.69	AAAA
MOTA	532	OH	TYR		65	33.499	25.543	43.924	1.00 27.20	AAAA
ATOM	533	C	TYR		65	37.814	22.022	41.464	1.00 24.91	AAAA
ATOM	534	ō	TYR		65	37.460	23.129	41.096	1.00 25.62	AAAA
ATOM	535	N _	ILE		56	38.965	21.812	42.080	1.00 23.20	AAAA
ATOM	536	CA	ILE		66	39.877	22.902	42.328	1.00 22.33	AAAA
ATOM	537	СВ	ILE		66	40.924	22.520		1.00 21.45	AAAA
ATOM	538		ILE		56	41.927	23.652	43.617	1.00 20.00	AAAA
ATOM	539		ILE		66	40.220	22.289	44.729	1.00 20.16	AAAA
ATOM	540		ILE		56	39.528	23.523	45.228	1.00 19.68	. AAAA
ATOM	541	C	ILE		56	40.558	23.261	41.023	1.00 22.68	AAAA
MOTA	542	ō	ILE		66	40.636	24.425	40.665	1.00 23.19	AAAA
ATOM	543	N	ASN		67	41.036	22.262	40.295	1.00 22.96	AAAA
ATOM	544	CA	ASN		67	41.698	22.545	39.02 9	1.00 23.92	AAAA
ATOM	545	CB	ASN		67	42.292	21.261	38.395	1.00 24.24	AAAA
ATOM	546	CG	ASN		67	43.344	20.588	39.289	1.00 23.38	AAAA
ATOM	547	OD1	ASN	A	67	44.196	21.256	39.859	1.00 23.47	AAAA
ATOM	548	ND2	ASN	A	67	43.290	19.258	39.392	1.00 23.20	AAAA
ATOM	549	С	ASN		67	40.717	23.216	38.063	1.00 23.82	AAAA
ATOM	550	0	ASN	A	67	41.123	23.996	37.204	1.00 24.63	AAAA
ATOM	551	N	THR	A	68	39.427	22.928	38.213	1.00 24.08	AAAA
ATOM	552	CA	THR	A	68	38.428	23.534	37.343	1.00 25.28	AAAA
ATOM	553	CB	THR	A	58	37.030	22.904	37.525	1.00 24.55	AAAA
ATOM	554	OG1	THR	A	68	37.090	21.500	37.258	1.00 24.64	AAAA
MOTA	555	CG2	THE	A	58	36.049	23.534	36.564	1.00 23.58	AAAA
ATOM	556	С	THR	A	68	38.322	25.023	37.664	1.00 26.31	AAAA
ATOM	557	0	THR	À	68	38.114	25.854	36.771	1.00 26.69	AAAA
ATOM	558	N	LEU	A	69	38.462	25.351	38.945	1.00 26.59	AAAA
ATOM	559	CA	LEU		59	38.381	26.729	39.378	1.00 27.05	AAAA
MOTA	560	CB	LEU	λ	69	38.321	26.807	40.904	1.00 27.15	AAAA AAAA
ATOM	561	CG	LEU		69	37.003	26.397	41.551	1.00 25.68	AAAA
MOTA	562		LEU		69	37.088	26.491	43.062	1.00 26.30	AAAA
ATOM	563		LEU		69	35.933	27.316	41.044	1.00 26.14 1.00 28.44	AAAA
MOTA	564	C	LEU		69	39.570	27.508	38.867 38.356	1.00 28.59	AAAA
MOTA	565	0	LEU		.69	39.425	28.619 26.914	39.009	1.00 29.31	AAAA
MOTA	566		MET		70	40.748	27.536	38.571	1.00 29.89	AAAA
ATOM	567	CA	MET		70 70	41.981 43.160	26.692	39.044	1.00 31.04	AAAA
ATOM	568	CB	MET		70 70	43.164	26.528	40.562	1.00 31.79	AAAA
ATOM	569	CG	MET		70	44.608	25.684	41.183	1.00 32.58	AAAA
ATOM	570	SD	MET MET		70	45.859	26.820	40.670	1.00 30.82	AAAA
ATOM	571	CE			70 70	42.017	27.723	37.057	1.00 30.36	AAAA
MOTA	572 573	С 0	MET		70	42.462	28.769	36.559	1.00 30.18	AAAA
MOTA					71	41.538	26.719	36.328	1.00 30.34	AAAA
atom atom	574 575	CA	GLU		71	41.519	26.795	34.874	1.00 30.73	AAAA
ATOM	576	CB	GLU		71	41.140	25.442	34.266	1.00 33.47	AAAA
ATOM	577	CG	GLU		71	41.122	25.430	32.731	1.00 37.11	AAAA
ATOM	578	CD	GLU		71	42.513	25.676	32.093	1.00 40.49	AAAA
ATOM	579		GLU		71	42.570	25.798	30.844	1.00 41.95	AAAA
ATOM	580		GLU		71	43.541	25.738	32.825	1.00 40.74	AAAA
ATOM	581	c	GLU		71	40.537	27.851	34.392	1.00 29.78	AAAA
MOTA	582	ō	GLU		71	40.852	28.642	33.508	1.00 27.82	AAAA
ATOM	583	N	ALA		72	39.352	27.855	34.992	1.00 29.85	AAAA
ATOM	584	CA	ALA		72	38.296	28.790	34.635	1.00 29.88	AAAA
ATOM	585	CB	λĹλ		72	37.022	28.432	35.374	1.00 29.07	AAAA
ATOM	586	c	ALA		72	38.667	30.238	34.907	1.00 30.78	AAAA
ATOM	587	ō	ALA		72	38.359	31.122	34.108	1.00 31.27	AAAA
ATOM	588	N	GLU		73	39.336	30.491	36.023	1.00 31.07	AAAA
ATOM	589	CA	GLU		73	39.710	31.856	36.346	1.00 31.65	AAAA
ATOM	590	СВ	GLU		73	40.243	31.954	37.785	1.00 30.52	AAAA
ATOM	591	CG	GLU		73	40.643	33.370	38.198	1.00 28.73	AAAA
ATOM	592	CD	GLU	A	73	41.076		39.651	1.00 28.77	AAAA
ATOM	593	CE1	GLU	JA	73	40.239	33.260	40.546		AAAA
ATOM	594	OE2	GLU	A	73	42.258	33.795	39.906	1.00 28.57	AAAA

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ATOM	595	С	GLU A	73		40.726	32.461	35.378	1.00 33.54	AAAA
ATOM	596	o	GLU A	73		40.456	33.499	34.767	1.00 34.93	AAAA
				_		41.885		35.214	1.00 34.35	
MOTA	597	N	ARG A	74			31.832			AAAA
ATOM	598	CA	ARG A	74		42.890	32.428	34.334	1.00 36.04	AAAA
MOTA	599	CB	ARG A	74		44.238	31.710	34.482	1.00 36.92	AAAA
ATOM-	600	CG	ARG A	74		44.327	30.313	33.923	1.00 38.14	AAAA
	601		ARG A	74		45.508	29.589	34.543	1.00 39.55	AAAA
MOTA		CD				-				
ATOM	602	NE	ARG A	74		45.893	28.404	33.785	1.00 42.02	AAAA
MOTA	603	CZ	ARG A	74		46.632	28.436	32.675	1.00 42.69	AAAA
MOTA	604	NHi	ARG A	74		47.071	29.593	32.191	1.00 42.76	AAAA
	605		ARG A	74		46.933	27.309	32.046	1.00 42.92	AAAA
ATOM									1.00 36.56	
ATOM	606	С	ARG A	74		42.476	32.532	32.864		AAAA
ATOM	607	0	ARG A	74	-	42.842	33.493	32.187	1.00 37.73	AAAA
MOTA	608	N	SER A	75		41.711	31.567	32.367	1.00 36.60	AAAA
ATOM	609	CA	SER A	75		41.248	31.622	30.987	1.00 36.82	AAAA
			SER A	75		40.916	30.218	30.478	1.00 36.10	- AAAA
MOTA	610	СВ								
ATOM	611	og	SER A	75		39.736	29.723	31.083	1.00 36.39	AAAA
ATOM	612	С	SER A	75		39.980	32.476	31.001	1.00 36.90	AAAA
ATOM	613	0	SER A	75		39.401	32.791	29.963	1.00 36.25	AAAA
ATOM	614	N	GLN A	76		39.568	32.845	32.208	1.00 37.62	AAAA
			GLN A	76		38.368	33.639	32.427	1.00 37.92	AAAA
ATOM	615	CA								
MOTA	616	CB	GLN A	76		38.613	35.100	32.049	1.00 38.23	AAAA
MOTA	617	CG	GLN A	76		37.630	36.048	32.717	1.00 40.67	AAAA
ATOM	618	CD	GLN A	76		37.929	36.298	34.199	1.00 41.40	AAAA
ATOM	619		GLN A	76		38.226	35.379	34.973	1.00 40.79	AAAA
	620		GLN A	76		37.833	37.556	34.597	1.00 42.32	AAAA
atom										
ATOM	621	С	GLN A	76		37.223	33.064	31.600	1.00 37.75	AAAA
ATOM	622	0	GLN A	76	•	36.521	33.789	30.901	1.00 38.13	AAAA
MOTA	623	N	SER A	7 7		37.045	31.749	31.685	1.00 37.52	AAAA
ATOM	624	CA	SER A	77		35.990	31.061	30.950	1.00 37.75	AAAA
	625		SER A	77	•	36.537	30.440	29.664	1.00 37.90	AAAA
MOTA		CB								
MOTA	626	OĢ	SER A	77		36.851	31.441	28.724	1.00 40.32	AAAA
MOTA	627	С	SER A	77		35.338	29.960	31.757	1.00 37.55	AAAA
MOTA	628	0	SER A	77		35.790	29.620	32.846	1.00 36.81	AAAA
ATOM	629	N	VAL A	78		34.264	29.412	31.198	1.00 37.82	AAAA
	630	CA	VAL A	78		33.538	28.309	31.812	1.00 37.99	AAAA
ATOM										AAAA
ATOM	631	CB	VAL A	78		32.027	28.514	31.715	1.00 37.19	
ATOM	632		VAL A	78		31.310	27.439	32.497	1.00 36.84	AAAA
ATOM	633	CG2	VAL A	78		31.662	29.906	32.201	1.00 37.60	AAAA
ATOM	634	С	VAL A	78		33.918	27.089	30.976	1.00 38.28	AAAA
ATOM	635	ō	VAL A	78		33.497	26.959	29.819	1.00 39.18	AAAA
						34.734	26.187	31.537	1.00 37.69	AAAA
ATOM	636	N	PRO A	79						
ATOM	637	CD	PRO A			35.347	26.167	32.869	1.00 37.65	AAAA
ATOM	638	CA	PRO A	79		35.146	24.998	30.797	1.00 37.54	AAAA
ATOM	639	CB	PRO A	79		36.127	24.325	31.759	1.00 37.45	AAAA
ATOM	640	CG	PRO A	79		36.655	25.489	32,557	1.00 37.65	AAAA
ATOM	641	C	PRO A			33.980	24.089	30.434	1.00 37.20	. AAAA
									1.00 36.43	AAAA
atom	642	0	PRO A			32.958	24.050	31.120		
ATOM	643	N	LYS A	80		34.154	23.363	29.338	1.00 37.42	AAAA
ATOM	644	CA	LYS A	80		33.160	22.423	28.855	1.00 37.35	AAAA
ATOM	645	CB	LYS A	80		33.757	21.586	27.725	1.00 37.99	AAAA
	646	CG	LYS A			32.928	20.379	27.280	1.00 38.94	AAAA
ATOM										AAAA
ATOM	647	CD	LYS A			31.835	20.710	26.286	1.00 39.07	
ATOM	648	CE	LYS A	80		31.320	19.402	25.688	1.00 40.43	AAAA
ATOM	649	NZ	LYS A	80		30.498	19.543	24.450	1.00 40.48	AAAA
ATOM	650	С	LYS A			32.752	21.515	30.003	1.00 36.85	AAAA
	651	õ	LYS A			33.610	20.942	30.676	1.00 36.56	AAAA
ATOM										AAAA
ATOM	652	N	GLY A			31.443	21.408	30.217	1.00 35.94	
ATOM	653	СA	GLY A	81		30.903	20.570	31.268	1.00 35.48	AAAA
ATOM	654	С	GLY A			31.110	21.054	32.695	1.00 35.23	AAAA
ATOM	655	ō	GLY A			30.749	20.355	33.644	1.00 35.46	AAAA
						31.677	22.241	32.867	1.00 35.17	AAAA
ATOM	656	N	ALA A						1.00 35.02	AAAA
atom	657	CA	ALA A			31.919		34.213		
ATOM	658	CB	ALA A			33.076	23.743	34.208	1.00 35.13	AAAA
ATOM	659	С	ALA A	82		30.674	23.378	34.797	1.00 34.39	AAAA
ATOM	660	Ö	ALA A			30.451	23.332	36.001	1.00 33.82	AAAA
ALUM.		-								•

; **226/263** Figure 19-11

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ATOM	661	N	ARG A	83		29.858	23.960	33.932	1.00 34.77	AAAA
MOTA	662	CA	ARG A	83		28.637	24.613	34.361	1.00 35.34	AAAA
ATOM	663	CB	ARG A	83		27.899	25.180	33.150	1.00 36.26	AAAA
ATOM	664	CG	ARG A	83		27.045	26.395 26.141	33.464 34.686	1.00 37.09 1.00 37.48	AAAA AAAA
ATOM	665 666	CD	ARG A	83 83		26.209 25.475	27.310	35.134	1.00 37.48	AAAA
ATOM ATOM	667	NE CZ	ARG A	83		24.711	27.310	36.218	1.00 37.77	AAAA
ATOM	668	NH1	ARG A	83		24.606	26.204	36.940	1.00 37.29	AAAA
MOTA	669	NH2	ARG A.	83		24.040	28.401	36.568	1.00 38.34	AAAA
ATOM	670	С	ARG A	83		27.739	23.603	35.065	1.00 36.30	AAAA
ATOM	671	0	ARG A	83		27.232	23.854	36.154	1.00 36.17	AAAA
ATOM	672	N	GLU A	84		27.565	22.450	34.431	1.00 37.19	AAAA
MOTA	673	CA	GLU A	84		26.721	21.382 20.375	34.948 33.833	1.00 37.80 1.00 40.55	AAAA AAAA
ATOM	674 675	CB CG	GLU A GLU A	84 84		26.466 25.643	.19.171	34.232	1.00 40.33	AAAA
ATOM ATOM	676	CD	GLU A	84		25.362	18.268	33.046	1.00 44.98	AAAA
ATOM	677	OE1		84		24.573	17.301	33.195	1.00 46.36	AAAA
ATOM	678	OE2	GLU A	84		25.937	18.532	31.962	1.00 44.94	AAAA
ATOM	679	С	GLU A	84		27.290	20.657	36.158	1.00 37.07	AAAA
MOTA	680	0	GLU A	84		26.642	20.555	37.199	1.00 36.17	AAAA
MOTA	681	N	LYS A	85		28.506 29.202	20.152 19.412	35.999 37.043	1.00 36.23 1.00 35.36	AAAA AAAA
MOTA	682 683	CA CB	LYS A	85 85		30.449		36.437	1.00 36.96	AAAA
ATOM ATOM	584	CG	LYS A	85		31.394	18.158	37.465	1.00 39.04	AAAA
ATOM	685	CD	LYS A	85		30.995	16.766	37.919	1.00 40.59	AAAA
ATOM	686	CE	LYS A	85		31.508	15.719	36.933	1.00 41.88	AAAA
MOTA	687	NZ	LYS A	85		32.998	15.817	36.757	1.00 42.00	AAAA
MOTA	588	C	LYS A	85		29.620	20.202	38.289	1.00 33.86	AAAA
MOTA	689	0	LYS A	85		29.576 30.014	19.679 21.458	39.404 38.097	1.00 33.82 1.00 32.06	AAAA AAAA
ATOM	690 691	N CA	TYR A	86 86		30.514	22.279	39.194	1.00 32.00	AAAA
ATOM ATOM	692	CB	TYR A	86		31.956	22.683	38.875	1.00 29.97	AAAA
MOTA	693	CG	TYR A	86		32.872	21.496	38.621	1.00 29.99	AAAA
MOTA	694	CD1	TYR A	86	•	33.281	20:666	39.666	1.00 29.24	AAAA
MOTA	695	CE1	TYR A	86		34.126	19.582	39.437	1.00 29.85	AAAA
ATOM	696	CD2		86		.33.329	21.204 20.118	37.329 37.087	1.00 30.16 1.00 29.61	AAAA AAAA
ATOM	697 698	CE2	TYR A	86 86		34.173 34.570	19.313	38.148	1.00 29.79	AAAA
ATOM ATOM	599	OH	TYR A	86		35.414	18.253	37.923	1.00 29.48	AAAA
ATOM	700	C.	TYR A	86		29.705	23.509	39.572	1.00 27.81	AAAA
ATOM	701	0	TYR A	86		30.052	24.202	40.524	1.00 27.56	AAAA
ATOM	702	N	ASN A	87		28.642	23.784	38.828	1.00 26.60	AAAA
ATOM	703	CA	ASN A	87		27.777	24.924 24.772	39.111 40.508	1.00 26.56 1.00 26.39	AAAA AAAA
MOTA	704 705	CB CG	ASN A	87 87		27.172 25.863	25.544	40.684	1.00 26.64	AAAA
MOTA MOTA	706		ASN A	87		25.335	25.632	41.790	1.00 26.84	AAAA
ATOM	707		ASN A	87		25.330	26.084	39.597	1.00 26.33	AAAA
ATOM	708	С	ASN A	87		28.587	26.217	39.024	1.00 26.40	AAAA
ATOM	709	0 ~	ASN A	87		28.430	27.129	39.832	1.00 24.80	AAAA
ATOM	710	N	ILE A	88		29.448	26.273	38.015 37.767	1.00 27.57 1.00 27.88	AAAA AAAA
ATOM	711	CA	ILE A	88		30.330 31.817	27.409 26.932	37.648	1.00 27.38	AAAA
ATOM ATOM	712 713	CB CG2	ILE A	88 88		32.684	27.994	36.986	1.00 26.34	AAAA
ATOM	714		ILE A	88		32.354	26.543	39.026	1.00 28.35	AAAA
ATOM	715		ILE A	88		32.356	27.671	40.042	1.00 27.78	AAAA
ATOM	716	С	ILE A	88		29.946	28.110	36.472	1.00 29.17	AAAA
MOTA	717	ာ	ILE A	88		29.530	27.469	35.515	1.00 29.75	AAAA AAAA
ATOM	718	N	GLY A	89		30.092	29.429 30.162	36.443 35.229	1.00 29.96 1.00 30.24	AAAA
MOTA	719	CA	GLY A	89 89		29.791 28.430	30.162	35.249	1.00 30.24	AAAA
ATOM	720 721	0	GLY A	89		28.177	31.769	34.514	1.00 30.44	AAAA
atom Atom	722	N	GLY A	90		27.542	30.268	36.061	1.00 30.00	AAAA
ATOM	723	CA	GLY A	90		26.221	30.841	36.129	1.00 30.52	AAAA
ATOM	724	C	GLY A	90		26.283	32.262	36.661	1.00 31.09	AAAA
ATCM	-25	0	GLY A	90		27.356	32.795	36.962	1.00 30.34	AAAA AAA A
ATOM	726	N	TYR A	91		25.112	32.873	36.768	1.00 31.09	MAMA

> mo>4	777	0.	mun :		24 077	34.213	37.290	1 00 31 37	
ATOM	727	CA	TYR A		24.977			1.00 31.27	AAAA
MOTA	728	CB	TYR A	A 91	23.515	34.634	37.195	1.00 31.82	AAAA
ATOM	729	CG	TYR A	A 91	23.169	35.825	38.047	1.00 31.81	AAAA
ATOM	730	CD1	TYR A	A 91	23.536	37.108	37.670	1.00 32.44	AAAA
ATOM	731	CEl			23.250	38.203	38.475	1.00 31.88	AAAA
								1.00 32.63	
ATOM	732	CD2	TYR A		22.505	35.663	39.254		AAAA
MOTA	733	CE2	TYR A	A 91	22.215	36.754	40.068	1.00 32.60	AAAA
ATOM	734	CZ	TYR A	A 91	22.589	38.016	39.668	1.00 31.59	AAAA
ATOM	735	OH	TYR A	A 91	22.283	39.094	40.450	1.00 31.94	AAAA
	736	c c	TYR A		25.384	34.202	38.753	1.00 31.56	AAAA
ATOM									
MOTA	737	0	TYR A		26.075	35.105	39.233	1.00 31.21	AAAA
ATOM	738	N	GLU A		24.925	33.158	39.438	1.00 31.51	AAAA
ATOM	739	CA	GLU A	A 92	25.143	32.941	40.865	1.00 32.70	AAAA
ATOM	740	CB	GLU A	A 92	24.463	31.626	41.268	1.00 33.55	AAAA
ATOM	741	CG	GLU A		24.174	31.495	42.747	1.00 34.16	AAAA
					23.311	30.278	43.087	1.00 35.31	AAAA
ATOM	742	CD	GLU 2						
ATOM	743		GLU 2		23.857	29.148	43.152	1.00 34.30	AAAA
ATOM	744	OE2	GLU A	A 92	22.076	30.466	43.275	1.00 35.36	AAAA
ATOM	745	С	GLU A	A 92	26.619	32.902	41.248	1.00 33.02	AAAA
ATOM	746	0	GLU A	a 92	27.073	33.623	42.140	1.00 32.91	AAAA
ATOM	747	N	ASN A		27.358	32.049	40.550	1.00 32.84	AAAA
							40.777	1.00 31.92	
ATOM	748	CA	ASN A		28.785	31.861			AAAA
MOTA	749	CB	ASN A		29.015	30.437	41.278	1.00 31.18	AAAA
ATOM	750	CG .	ASN A		27.948	29.994	42.259	1.00 30.34	AAAA
ATOM	751	OD1	ASN A	A 93	27.723	30.642	43.271	1.00 31.20	AAAA
ATOM	752	ND2	ASN A	A 93	27.284	28.892	41.955	1.00 29.02	AAAA
ATOM	753	С	ASN A	A 93	29.442	32.052	39.411	1.00 30.84	AAAA
ATOM	754	0	ASN A	A 93	29.823	31.082	38.758	1.00 30.82	AAAA.
ATOM	755	N	PRO A		29.605	33.309	38.975	1.00 29.56	AAAA
ATOM	756	CD	PRO A		29.312	34.590	39.626	1.00 29.03	AAAA
					30.209	33.564	37.671	1.00 28.89	AAAA
ATOM	757	CA	PRO A						
ATOM	758	СЗ	PRO A		29.890	35.045	37.416	1.00 28.22	AAAA
ATOM	759	CG	PRO A		28.839	35.377	38.435	1.00 29.50	AAAA
ATOM	760	С	PRO A	A 94	31.698	33.351	37.664	1.00 28.25	AAAA
ATOM	761	0	PRO A	A 94	32.308	32.996	38.671	1.00 28.21	AAAA
ATOM	762	N	VAL A	A 95	32.257	33.593	36.488	1.00 27.36	AAAA
ATOM	763	CA	VAL A	a 95	33.676	33.530	36.247	1.00 26.24	AAAA
ATOM	764	CB	VAL A	a 95	33.945	33.289	34.741	1.00 26.10	AAAA
ATOM	765		VAL A		35.373	33.717	34.357	1.00 25.47	AAAA
ATOM	766		VAL A		33.736	31.826	34.434	1.00 25.59	AAAA
	767				34.178	34.919	36.647	1.00 26.56	AAAA
MOTA		C	VAL A						
MOTA	768	С	VAL A		33.560	35.937	36.307	1.00 27.18	AAAA
ATOM	769	N	SER A	a 96	35.280	34.966	37.382	1.00 25.23	AAAA
MOTA	770	CA	SER A	A 96	35.858	36.237	37.790	1.00 24.51	AAAA
ATOM	771	C3	SER A	A 96	34.935	36.961	38.774	1.00 23.22	·AAAA
ATOM	772	OG	SER A	A 96	34.941	36.297	40.014	1.00 19.76	AAAA
ATOM	773	С	SER A		37.169	35.920	38.485	1.00 24.84	AAAA
ATOM	774	Ö	SER A		37.590	34.764	38.530	1.00 25.97	AAAA
	775		TYR A		37.824	36.933	39.030	1.00 24.02	AAAA
ATOM		N							
ATOM	776	CA	TYR A		39.047	36.664	39.744	1.00 24.55	AAAA
atom	777	CE	TYR A		40.071	37.762	39.504	1.00 23.94	AAAA
MOTA	778	CG	TYR 2	a 97	40.682	37.636	38.128	1.00 23.72	AAAA
ATOM	779	CD1	TYR A	a 97	40.177	38.341	37.039	1.00 23.11	AAAA
ATOM	780	CE1	TYR A	a 97	40.700	38.136	35.758	1.00 23.50	AAAA
MOTA	781		TYR A		41.717	36.735	37.903	1.00 22.25	AAAA
ATOM	782	CE2	TYR A		42.236	36.526	36.640	1.00 22.86	AAAA
	783	CZ	TYR A		41.730	37.217	35.572	1.00 23.56	AAAA
ATOM					42.232	36.941	34.318	1.00 24.06	AAAA
MOTA	784	CH.	TYR A						
MOTA	785	C	TYR A		38.800	36.436	41.228	1.00 25.08	AAAA
ATOM	786	0	TYR A		39.739	36.266	42.009	1.00 26.31	AAAA
ATCM	787	:1	ALA A	A 98	37.522	36.406	41.589	1.00 24.73	አልልፋ
ATOM	788	CA	ALA :	A 98	37.083	36.159	42.951	1.00 24.50	AAAA
ATOM	789	CB	ALA A		35.800	36.925	43.235	1.00 24.48	AAAA
ATOM	790	c	ALA A		36.824	34.661	43.088	1.00 23.95	AAAA
ATOM	791	0	ALA A		36.929	34.100	44.171	1.00 24.21	AAAA
	792	N	MET 2		36.502	34.011	41.976	1.00 23.10	AAAA
ATCM	: 74	*4	المنبية	. , , ,	50.502	24.011			

ATOM	793	CA	MET A	A 99	36.208	32.584	42.000	1.00 22.61	አአአአ
MOTA	794	CB	MET A	A 99	35.855	32.089	40.597	1.00 23.25	AAAA
ATOM	795	CG	MET 2		37.009	32.063	39.607	1.00 23.22	አ አአአ
	796	SD	MET A		36.360	31.808	37.952	1.00 25.21	AAAA
ATOM					35.328	30.374	38.258	1.00 22.04	AAAA
ATOM	797	CE	MET A				42.581	1.00 21.80	AAAA
MOTA	798	С	MET A		37.319	31.720			
MOTA	799	0	MET A	A 99	37.052	30.695	43.199	1.00 21.29	AAAA
ATOM	800	N		A 100	38.567	32.111	42.380	1.00 21.87	አሕሕአ
	801	CA		A 100	39.650	31.322	42.936	1.00 21.11	AAAA
ATOM					40.388	30.552	41.841	1.00 20.25	AAAA
ATOM	802	CE		A 100		29.648	42.375	1.00 20.14	AAAA
MOTA	803	CG		A 100	41.451			1.00 20.49	AAAA
ATOM	804	CD1	PHE .	A 100	41.114	28.462	43.010		
ATOM	805	CD2	PHE .	A 100	42.785	30.050	42.373	1.00 19.82	AAAA
ATOM	806	CE1	PHE .	A 100	42.090	27.695	43.646	1.00 19.54	AAAA
	807			A 100	43.755	29.300	43.001	1.00 19.22	AAAA
ATOM	808	CZ		A 100	43.410	28.122	43.641	1.00 19.47	AAAA
ATOM					40.649	32.161	43.743	1.00 21.37	AAAA
MOTA	809	C		A 100			44.887	1.00 21.26	AAAA
MOTA	810	0		A 100	40.959	31.822		1.00 20.94	AAAA.
MOTA	811	N	THR	A 101	41.142	33.252	43.161		
ATOM	812	CA	THR	A 101	42.119	34.097	43.847	1.00 21.95	AAAA
ATOM	813	CB	THR	A 101	42.691	35.181	42.905	1.00 22.21	AAAA
	814			A 101	43.511	34.552	41.917	1.00 22.90	AAAA
ATOM					43.535	36.186	43.667	1.00 21.38	AAAA
ATOM	815			A 101		34.755	45.117	1.00 22.60	AAAA
MOTA	816	С		A 101	41.584			1.00 23.38	AAAA
MOTA	817	0	THR	A 101	42.248	34.723	46.147		
ATOM	818	N	GLY	A 102	40.394	35.343	45.049	1.00 22.13	. AAAA
ATOM	819	CA	GLY	A 102	39.826	35.972	46.227	1.00 22.03	AAAA
MOTA	820	С		A 102	39.340	34.928	47.221	1.00 21.36	AAAA
	821	ō		A 102	39.433	35.104	48.439	1.00 20.02	AAAA
ATOM				A 103	38.816	33.833	46.677	1.00 21.86	AAAA
MOTA	822	N				32.719	47.466	1.00 21.68	aaaa
MOTA	823	CA		A 103	38.311		46.557	1.00 21.56	AAAA
MOTA	824	CB		A 103	37.699	31.668			AAAA
MOTA	825	OG	SER	A 103	36.604	32.216	45.857	1.00 23.67	
ATOM	826	C	SER	A 103	39.450	32.098	48.229	1.00 22.67	AAAA
ATOM	827	်ဝ	SER	A 103	39.314	31.806	49.412	1.00 22.44	AAAA
	828	N		A 104	40.578	31.898	47.545	1.00 23.37	AAAA
ATOM	829	CA		A 104	41.746	31.305	48.183	1.00 23.50	AAAA
MOTA					42.862	31.070	47.172	1.00 24.80	AAAA
ATOM	830	CB		A 104		30.169	46.175	1.00 28.38	AAAA
atom	831	OG		A 104	42.441		49.256	1.00 22.79	AAAA
MOTA	832	С		A 104	42.254	32.230		1.00 22.66	AAAA
ATOM	833	0	SER	A 104	42.707	31.794	50.307		
ATOM	834	N	LEU	A 105	42.160	33.518	48.970	1.00 22.08	AAAA
ATOM	835	CA	LEU	A 105	42.626	34.541	49.870	1.00 21.70	AAAA
	836	CB		A 105	42.524	35.882	49.159	1.00 21.89	 አሕሕል
ATOM		. CG		A 105	43.332	37.038	49.718	1.00 23.64	AAAA
ATOM	837				44.830	36.692	49.639	1.00 22.01	AAAA
ATOM	838	CDI	. LEU	A 105		38.304	48.919	1.00 23.60	AAAA
ATOM	839	CD2	LEU	A 105	43.004			1.00 22.29	AAAA
ATOM	840	С		A 105	41.767	34.525	51.131		AAAA
ATOM	841	0	LEU	A 105	42.277	34.595	52.249	1.00 21.95	
ATOM	842	N	ALA	A' 106	40.458	34.429	50.934	1.00 22.23	AAAA
ATOM	843	CA		A 106	39.515	34.394	52.042	1.00 22.32	AAAA
	944	CB		A 106	38.068	34.472	51.526	1.00 22.05	AAAA
ATOM				A 106	39.704	33.126	52.840	1.00 21.99	AAAA
ATOM	845	C			39.578	33.145	54.061	1.00 23.18	AAAA
MOTA	846	O		A 106			52.144	1.00 21.24	AAAA
ATOM	847	N		A 107	40.011	32.032			AAAA
ATOM	848	CA	THR	A 107	40.209		52.779	1.00 20.60	
ATOM	849	CB	THR	A 107	40.170		51.749	1.00 19.82	AAAA
ATOM	850	OG1		A 107	38.903	29.553	51.083	1.00 18.56	АААА
		CG2		A 107	40.360			1.00 18.58	AAAA
ATOM	851			A 107	41.516				AAAA
ATOM	852	C			41.537				AAAA
ATOM	853	0		A 107	41.53/	30.040			AAAA
ATOM	854	N		A 108	.42.601	31.176			AAAA
ATOM	855	CA	GLY	A 108	43.878				
ATOM	856			A 108	43.739				AAAA
ATOM	857			A 108	44.335		55.998		AAAA
	858			A 109	42.909				AAAA .
ATOM	0 3 8	7.A	254	A 103	40.200				

ATOM	859	CA	SER	Δ	109		42.683	33.805	56.098	1 00	19.67	AAAA
ATOM	860	CB			109		41.899	35.058	55.707		20.27	AAAA
ATOM	861	OG	SER	A	109		42.618	35.803	54.746	1.00	21.80	AAAA
MOTA	862	С	SER	Δ	109		41.955	33.066	57.219	1 00	19.61	AAAA
ATOM	863	0	SER	A	109		42.078	33.426	58.388		18.40	AAAA
ATOM -	864	N	THR	Α	110		41.186	32.042	56.866	1.00	19.88	AAAA
	865	CA			110		40.493	31.288	57.891		20.51	AAAA
MOTA												
MOTA	866	CB	THR	Α	110		39.365	30.438	57.304	1.00	20.62	AAAA
ATOM	867	OG1	THR	Α	110		38.236	31.284	57.050	1.00	20.80	AAAA
											20.53	
ATOM	868	CG2	THR				38.974	29.313	58.262			AAAA
ATOM	869	C	THR	Α	110		41.504	30.420	58.601	1.00	20.36	AAAA
ATOM	870	0	THR	Δ	.110		41.455	30.268	59.822	1 00	20.78	AAAA
						-			_			
ATOM	871	N			111		42.431	29.855	57.832		20.85	AAAA
ATOM	872	ÇA	VAL	Α	111		43.480	29.053	58.423	1.00	21.03	AAAA
ATOM	873	CB	VAL.	A	111		44.318	28.323	57.345	1.00	21.05	AAAA
							45.537					
MOTA	874		VAL					27.644	57.983		19.91	-AAAA
ATOM	875	CG2	VAL	A	111		43.460	27.281	56.648	1.00	18.39	AAAA
ATOM	876	С	VAI.	A	111		44.374	30.005	59.232	1.00	21.84	AAAA
											22.73	
ATOM	877	0			111		44.825	29.671	60.331			AAAA
MOTA	878	N	GLN	Α	112		44.612	31.204	58.712	1.00	21.62	AAAA
ATOM	879	CA	GLN	А	112		45.449	32.133	59.452	1.00	21.89	AAAA
ATOM	880	CB			112		45.630	33.450	58.690		22.50	AAAA
MOTA	881	CG	GLN	Α	112		46.288	33.283	57.335	1.00	23.68	AAAA
ATOM	882	CD	GI.N	Δ	112		46.414	34.578	56.569	1 00	23.18	AAAA
ATOM	883		GLN				47.389	35.310	56.722		23.86	AAAA
ATOM	884	NE2	GLN	A	112		45.413	34.879	55.752	1.00	21.90	AAAA
ATCM	885	С	GT.N	Α	112		44.766	32.383	60.774	1.00	21.84	AAAA
MOTA	886	0			112		45.389	32.316	61.835		22.47	AAAA
ATOM	887	N	ALA	Α	113		43.468	32.651	60.700	1.00	21.34	AAAA
MOTA	888	CA	ALA	А	113		42.682	32.934	61.884	1.00	20.84	AAAA
							41.244	33.172	61.504			
ATOM	889	CB			113						18.52	AAAA
ATOM	890	С	ALA	A	113		42.795	31.782	62.865	1.00	21.75	AAAA
MOTA	891	0	ALA	A	113		42.880	31.985	64.084	1.00	22.24	AAAA
	892	N			114		42.797	30.569	62.329		22.54	AAAA
ATOM												
ATOM	893	CA	ILE	Α	114		42.891	29.393	63.160	1.00	23.16	AAAA
ATOM	894	CB	ILE	Α	114		42.557	28.146	62.352	1.00	23.33	AAAA
	895		ILE				42.939	26.912	63.106		23.80	AAAA
ATOM												
ATOM	896		ILE				41.058	28.130	62.047	1.00	23.48	AAAA
ATOM	897	CD1	ILE	А	114		40.610	26.951	61.204	1.00	22.08	AAAA
	898	С			114		44.268	29.270	63.792		24.33	AAAA
MOTA												
ATCM	899	0	ILE	A	114		44.373	29.013	64.990	1.00	25.30	AAAA
ATCM	900	N	GLU	Α	115		45.319	29.490	63.002	1.00	24.96	AAAA
ATOM	901	CA			115		46.699	29.395	63.503	1 00	26.61	AAAA
ATCM	902	CB			115		47.708	29.753	62.406		24.75	AAAA
ATOM	903	CG	GLU	Α	115		47.444	29.033	61.103	1.00	25.80	AAAA
ATOM	904	CD	GLU	A	115		48.471	29.323	60.030	1.00	26.07	AAAA
	905		GLU				48.911	30.484	59.940		27.15	AAAA
ATOM												
ATOM	906	OE2	GLU	Α	115		48.819	28.402	59.260	1.00	25.45	AAAA
ATCM	907	С	GLU				46.877	30.340	64.680	1.00	27.89	AAAA
	908						47.480	29.975	65.695		28.04	AAAA
ATOM		0	GLU									
MOTA	909	N	GLU	Α	116		46.337	31.552	64.531	1.00	29.15	AAAA
MOTA	910	CA	GLU	A	116		46.408	32.579	65.563	1.00	29.42	AAAA
	911		GLU				45.751	33.871	65.082		28.26	AAAA
ATOM		CB										
ATOM	912	CG	GLU	A	116		46.482	34.529	63.945	1.00	28.93	AAAA
MOTA	913	CD	GLU	Α	116		47.902	34.937	64.318	1.00	28.32	AAAA
	914		GLU				48.081	35.878	65.123		27.68	AAAA
ATCM												
ATOM	91,5	OE2	GLU				48.838	34.297	63.810		27.38	AAAA
ATOM	916	С	GLU	A	116		45.737	32.126	66.845	1.00	29.77	AAAA
	917	ō			116		46.338	32.196	67.920		30.29	AAAA
ATOM												
ATCM	918	11			117		44.492	31.665	66.727		29.64	AAAA
ATOM	919	CA	PHE	Α	117		43.741	31.204	67.887	1.00	29.33	AAAA
	920	CB			117		42.425	30.552	67.480		28.89	AAAA
ATOM												
ATOM	921	CG			117		41.604	30.087	68.651		28.93	AAAA
ATOM	922	CD1	PHE	A	117		41.010	31.010	69.510	1.00	28.42	AAAA
	923		PHE				41.441	28.723	68.910		29.06	AAAA
ATCM												
ATOM	924	CEI	PHE	A	TT/		40.261	30.588	70.610	1.00	28.68	AAAA
												-

ATOM	925	CE2	PHE A	3 117	40.695	28.284	70.009	1.00 29.16	AAAA
ATOM	926	CZ	PHE A	A 117	40.103	29.227	70.862	1.00 29.03	AAAA
ATOM	927	С	PHE 2	A 117	44.545	30.195	68.671	1.00 29.22	AAAA
ATOM	928	0	PHE A	A 117	44.677	30.315	69.884	1.00 30.29	AAAA
ATOM	929	N	LEU A	A 118	45.066	29.19 5	67.965	1.00 29.24	AAAA
ATOM	930	CA	LEU A		45.864	28.145	68.576	1.00 29.50	AAAA
MOTA	931	CB	LEU A		46.182	27.047	67.550	1.00 28.57	AAAA
MOTA	932	CG	LEU 2		44.962	26.296	66.989	1.00 28.16	AAAA
MOTA	933		LEU A		45.421	25.090	66.191	1.00 25.58	AAAA
MOTA	934		LEU A		44.053	25.846	68.128 69.227	1.00 27.64 1.00 30.14	AAAA
ATOM	935	C	LEU A		47.150 47.727	28.649 27.954	70.056	1.00 30.14	АААА АААА
ATOM	936	0	LEU A		47.602	29.845	68.847	1.00 31.36	AAAA
ATOM	937 938	N CA	LYS	A 119	48.798	30.451	69.448	1.00 32.52	AAAA
MOTA MOTA	939	CB	LYS A		49.396	31.539	68.559	1.00 32.38	AAAA
ATOM	940	CG		A 119	49.882	31.108	67.199	1.00 33.03	AAAA
ATOM	941	CD		A 119	50.371	32.321	66.411	1.00 32.74	AAAA
ATOM	942	CE		A 119	50.681	31.939	64.972	1.00 33.94	AAAA
ATOM	943	NZ		A 119	51.125	33.099	64.152	1.00 34.93	AAAA
MOTA	944	С		A 119	48.385	31.143	70.744	1.00 33.74	AAAA
ATOM	945	0	LYS A	A 119	49.218	31.748	71.413	1.00 34.85	AAAA
ATOM	946	N		A 120	47.096	31.079	71.073	1.00 33.68	AAAA
ATOM	947	CA		A 120	46.600	31.736	72.263	1.00 33.69	AAAA
ATOM	948	С		A 120	45.987	33.110	71.988	1.00 34.11	AAAA
MOTA	949	0		A 120	45.588	33.802	72.932 70.717	1.00 33.65 1.00 33.58	AAAA AAAA
ATOM	950	N		A 121	45.904 45.326	33.513 34.820	70.717	1.00 33.35	AAAA
ATOM	951 952	CA CB		A 121 A 121	46.194	35.537	69.341	1.00 33.18	AAAA
ATOM	953	CG		A 121	47.570	35.828	69.859	1.00 34.31	AAAA
ATOM ATOM	954			A 121	48.333	34.921	70.154		AAAA
ATOM	955			à 121	47.897	37.096	69.975	1.00 34.18	AAAA
ATOM	956	C		A 121	43.888	34.805	69.839	1.00 32.85	AAAA
ATOM	957	0	ASN .	A 121	43.304	33.751	69.599	1.00 32.78	AAAA
MOTA	958	N		A 122	43.338	36.003	69.655	1.00 32.47	AAAA
MOTA	959	CA		A 122	41.980	36.200	69.148	1.00 30.89	AAAA
MOTA	960	CB		A 122	41.182	37.145	70.070	1.00 31.05	AAAA AAAA
MOTA	961			A 122	39.831	37.423 36.516	69.489 71.440	1.00 30.95 1.00 31.19	AAAA
ATOM	962			A 122	41.038 42.056	36.805	67.750	1.00 31.13	AAAA
MOTA	953 964	C O		A 122 A 122	42.694	37.840	67.535	1.00 31.28	AAAA
ATOM ATOM	965	И		A 123	41.405	36.147	66.800	1.00 28.62	AAAA
ATOM	966	CA		A 123	41.415	36.589	65.421	1.00 26.49	AAAA
ATOM	967	CB		A 123	42.323	35.708	64.599	1.00 26.51	AAAA
ATOM	968	С	ALA	A 123	40.038	36.570	64.836	1.00 25.59	AAAA
MOTA	969	0	ALA	A 123	39.173	35.814	65.252	1.00 26.27	AAAA
MOTA	970	N		A 124	39.848	37.421	62 . 847	1.00 25.44	AAAA
ATOM	971	CA		A 124	38.590	37.534	62.156	1.00 23.87	AAAA
ATOM	972	CB		À 124	37.832	38.779	63.646	1.00 23.58 1.00 23.71	AAAA AAAA
ATOM	973	CG		A 124	36.591	39.119 38.140	62.841 62.495	1.00 23.71	AAAA
MOTA	974			A 124 A 124	35.668 36.311	40.449	62.498	1.00 23.75	AAAA
ATOM	975 976			A 124	34.479	38.483	61.823	1.00 23.31	AAAA
ATOM ATOM	977			A 124	35.131	40.796	61.833	1.00 21.71	AAAA
	. 978	CZ		A 124	34.217	39.815	61.497	1.00 22.35	AAAA
ATOM	979	C		A 124	38.951	37.673	61.700	1.00 23.26	AAAA
ATCM	980	ō		A 124	39.720	38.555	61.323	1.00 22.29	AAAA
ATOM	981	N		A 125	38.427	36.759	60.897	1.00 23.24	AAAA
ATOM	382	CA		A 125	38.622	36.785	59.457	1.00 21.08	AAAA
ATOM	983	CB		A 125	39.181	35.470	58.951	1.00 19.90	AAAA
atom	984	CG		A 125	39.098	35.360	57.454	1.00 20.64	AAAA
ATOM	`385			A 125	39.389	36.317		1.00 21.63	AAAA AAAA
ATOM	986			A 125	38.721	34.190	56.956 58.813	1.00 19.93 1.00 20.19	AAAA
ATOM	987	C		A 125	37.269	37.059	58.579	1.00 20.19	AAAA
ATOM	988	0		A 125	36.469	36.148 38.340	58.543	1.00 19.21	AAAA
ATOM	989	CD N		A 126	36.991 37.893	39.460	58.858	1.00 19.14	AAAA
ATOM	390	CD	PRO	A 126	37.893	79.400	20.000	2.00 23.62	

MOTA	991	CA	PRO	A	126	35.766	38.849	57.932	1.00 19.52	AAAA
			PRO			36.005	40.359	57.941	1.00 18.55	AAAA
MOTA	992	CB								
ATOM	993	CG	PRO	Α	126	37.511	40.465	57.799	1.00 17.97	AAAA
ATOM	994	С	PRO	Α	126	35.456	38.313	56.526	1.00 19.41	AAAA
ATOM	995	0	PRO			34.303	38.349	56.080	1.00 19.68	AAAA
						36.477	37.814	55.835	1.00 18.17	AAAA
MOTA	996	N	ALA							
MOTA	997	CA	ALA	Α	127	36.283	37.314	54.481	1.00 17.66	AAAA
ATOM	998	CB	ALA	Α	127	37.547	37.520	53.658	1.00 17.08	AAAA
	999	C	ALA			35.875	35.857	54.443	1.00 17.46	AAAA
MOTA									1.00 18.92	
MOTA	1000	0	ALA			35.438	35.359	53.409		AAAA
MOTA	1001	N	GLY	Α	128	36.019	35.180	55.570	1.00 15.94	AAAA
MOTA	1002	CA	GLY	Α	128	35.685	33.780	55.642	1.00 15.45	AAAA
ATOM	1003	C	GLY			34.226	33.593	55.955	1.00 16.08	AAAA
						33.485	34.557	55.997	1.00 15.43	AAAA
ATOM	1004	0	GLY							
ATOM	1005	N	GLY			33.821	32.353	56.198	1.00 16.77	AAAA
ATOM	1006	CA	GLY	Α	129	32.426	32.082	56.462	1.00 17.82	AAAA
ATOM	1007	С	GLY			31.669	31.822	55.169	1.00 18.64	AAAA
		ō	GLY			30.469	32.051	55.108	1.00 18.48	AAAA
MOTA	1008									
MOTA	1009	N	MET			32.380	31.368	54.137	1.00 20.45	AAAA
MOTA	1010	CA	MET	Α	130	31.790	31.029	52.826	1.00 21.60	AAAA
MOTA	1011	СВ	MET	Α	130	32.866	31.117	51.744	1.00 22.02	AAAA
	1012	CG	MET			33.551	32.472	51.698	1.00 21.75	AAAA
ATOM									1.00 24.75	
ATOM	1013	SD	MET			34.971	32.567	50.599		AAAA
ATOM	1014	CE	MET	Α	130	34.268	32.137	49.048	1.00 24.40	AAAA
MOTA	1015	C.	MET	Α	130	31.328	29.587	53.002	1.00 22.08	AAAA
ATOM	1016	0	MET			31.970	28.641	52.546	1.00 22.98	AAAA
			HIS			30.184	29.452	53.659	1.00 22.25	AAAA
MOTA	1017	N	-							
ATCM	1018	CA	HIS	Α	131	29.618	28.171	54.062	1.00 20.49	AAAA
MOTA	1019	CB	HIS	Α	131	28.832	28.421	55.342	1.00 20.00	AAAA
ATOM	1020	CG	HIS	Α	131	27.679	29.360	55.161	1.00 17.93	AAAA
ATOM	1021		HIS			27.091	29.846	54.043	1.00 17.88	AAAA
							29.854	56.219	1.00 19.33	AAAA
MOTA	1022		HIS			26.952				
MOTA	1023	CE1	KIS	Α	131	25.968	30.607	55.758	1.00 16.99	AAAA
MOTA	1024	NE2	HIS	Α	131	26.031	30.617	54.441	1.00 17.43	AAAA
MOTA	1025	С	HTS	A	131	28.763	27.332	53.141	1.00 19.97	AAAA
					131	28.330	26.262	53.541	1.00 19.61	AAAA
ATOM	1026	0							1.00 20.11	AAAA
ATOM	1027	N			132	28.518	27.796	51.923		
MOTA	1028	CA	HIS	Α	132	2 7 .673	27.058	50.994	1.00 17.76	AAAA
ATOM	1029	CB	HIS	Α	132	26.879	28.044	50.127	1.00 16.76	AAAA
ATOM	1030	CG	HIS			25.824	28.815	50.862	1.00 15.35	AAAA
						25.567	30.146	50.920	1.00 14.15	AAAA
ATOM	1031		HIS							
MOTA	1032		HIS			24.804	28.200	51.557	1.00 16.15	AAAA
MOTA	1033	CE1	HIS	Α	132	23.966	29.119	52.005	1.00 14.13	AAAA
MOTA	1034	NE2	HIS	Α	132	24.405	30.307	51.632	1.00 14.65	AAAA
ATOM	1035	С			132	28.355	26.051	50.065	1.00 17.99	AAAA
	1.36				132	27.742	25.053	49.684	1.00 18.54	AAAA
MOTA		0				_				AAAA
MOTA	1 537	N			133	29.604	26.305	49.690	1.00 17.82	
MOTA	1,38	CA	ALA	Α	133	30.300	25.441	48.742	1.00 18.38	AAAA
MOTA	1039	CB	ALA	Α	133	31.684	25.961	48.507	1.00 17.53	AAAA
MOTA	1040	c			133	30.366	23.970	49.130	1.00 20.92	AAAA
							23.633	50.298	1.00 21.79	AAAA
ATOM	1041	0			133	30.578				
ATOM	1042	N	PHE	Α	134	30.184	23.086	48.152	1.00 20.58	AAAA
ATOM	1043	CA	PHE	Α	134	30.258	21.663	48.455	1.00 21.38	AAAA
ATOM	1044	CB			134	29.168	20.860	47.731	1.00 19.41	AAAA
							21.229	48.126	1.00 18.32	AAAA
MOTA	1045	CG			134	27.772				
MOTA	1046		PHE			27.02 7	22.099	47.357	1.00 19.22	AAAA
ATOM	1047	CD2	PHE	Α	134	27.193	20.701	49.271	1.00 19.14	AAAA
MOTA	1048		PHE			25.714	22.438	47.726	1.00 18.56	AAAA
						25.889	21.036	49.644	1.00 17.72	AAAA
ATOM	1049		PHE				•			
MOTA	1050	CZ			134	25.158	21.903	48.866	1.00 18.01	AAAA
MOTA	1051	С	PHE	A	134	31.625	21.124	48.081	1.00 22.90	AAAA
ATOM	1052	0			134	32.459	21.833	47.544	1.00 23.37	AAAA
		N			135	31.842	19.861	48.390	1.00 24.63	AAAA
ATOM	1053							48.122	1.00 27.16	AAAA
ATOM	1054	CA			-135	33.095	19.195			
ATOM	1055	CB			135	32.926	17.714	48.480	1.00 28.53	AAAA
ATOM	1056	CG	LYS	A	135	34.133	16.843	48.292	1.00 31.01	AAAA
				_				-		_

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	1057	CD	LYS	3	125		33.879	15.472	48.910	1.00 32.75	ሕ ሕ ሕ
MOTA	1057						•				
MOTA	1058	CE	LYS	A	135		33.961	15.495	50.457	1.00 33.96	AAAA
		NZ	LYS				35.371	15.664	50.976	1.00 33.04	AAAA
MOTA	1059									1.00 27.37	AAAA
ATOM	1060	С	LYS	Α	135		33.577	19.390	46.673		
	1061	0	LYS				34.769	19.596	46.437	1.00 27.35	AAAA
MOTA	_								45.714	1.00 27.32	AAAA
ATOM	1062	N	SER	Α	136		32.658	19.354			
	1063	CA	SER	a	136		33.028	19.527	44.313	1.00 28.31	AAAA
MOTA		-							43.626	1.00 28.56	AAAA
MOTA	1064	CB	SER	Α	136		33.093	18.162			
	1065	OG	SER	λ	136		33.822	17.242	44.417	1.00 29.28	AAAA
MOTA									43.599	1.00 28.91	AAAA
ATOM	1066	С	SER	A	136		31.993	20.395			
	1067	0	SER	Δ	136	-	31.568	20.080	42.486	1.00 28.78	AAAA
MOTA								21.502	44.212	1.00 29.08	AAAA.
ATOM	1068	N	ARG				31.595				
ATOM	1069	CA	ARG	2	127		30.574	22.311	43.576	1.00 29.66	AAAA
							29.259	21.528	43.657	1.00 31.65	AAAA
MOTA	1070	CB	ARG								
ATOM	1071	CG	ARG	Α	137		27.989	22.273	43.355	1.00 33.89	AAAA
							26.862	21.267	43.373	1.00 35.93	AAAA
ATOM	1072	CD	ARG								AAAA
ATOM	1073	NE	ARG	Α	137		26.961	20.366	42.228	1.00 36.31	
	-	CZ	ARG				26.505	20.660	41.015	1.00 35.99	AAAA
ATOM	1074								40.798	1.00 34.63	AAAA
ATOM	1075	NHl	ARG	Α	137		25.915	21.834			
	1076	VITT 2	ARG	Δ	137		26.650	19.786	40.025	1.00 35.35	AAAA
MOTA							_	23.723	44.116	1.00 28.53	AAAA
ATOM	1077	С	ARG	Α	137		30.402				
	1078	0	ARG	Δ	137		30.418	23.946	45.324	1.00 28.51	AAAA
MOTA							30.247	24.673	43.202	1.00 27.53	AAAA
ATOM	1079	N	λ LA	Α	138						
MOTA	1080	CA	A1.A	À	136		30.039	26.063	43.581	1.00 27.64	AAAA
							30.236	26.984	42.381	1.00 27.87	AAAA
MOTA	1081	CB			138						
ATOM	1082	С	ALA	Α	138		28.601	26.130	44.079	1.00 27.27	AAAA
					138		27.769	25.321	43.671	1.00 28.30	AAAA
MOTA	1083	0								1.00 26.16	AAAA
MOTA	1084	N	ASN	А	139		28.292	27.080	44.951		
		CA			139		26.945	27.134	45.480	1.00 25.39	AAAA
ATOM	1085								46.282	1.00 24.58	AAAA
ATOM	1086	CB	ASN	Α	139		26.673	25.847			
	1087	CG	7 CM	۵.	139		25.343	25.872	47.017	1.00 25.37	AAAA
ATOM								26.017	46.413	1.00 24.20	AAAA
MOTA	1088		ASN				24.272				
MOTA	1089	ND2	ASN	Α	139		25.408	25.720	48.338	1.00 24.91	AAAA
							26.683	28.358	46.341	1.00 24.90	AAAA
ATOM	1090	Ç			139					1.00 24.98	AAAA
ATOM	1091	0	ASN	A	139		27.346	28.570	47.348		
	1092	N			140		25.702	29.145	45.916	1.00 24.46	AAAA
MOTA									46.625	1.00 22.96	AAAA
ATOM	1093	CA	GLY	A	140		25.294	30.336			
	1094	С	GT.V	2	140		26.383	31.358	46.755	1.00 22.24	AAAA
ATOM								31.817	47.867	1.00 23.09	AAAA
ATOM	1095	0	GLY	A	140		26.663				
ATOM	1096	N	PHE	A	141		26.992	31.711	45.625	1.00 20.60	AAAA
							28.075	32.700	45.572	1.00 19.43	AAAA
MOTA	1097	CA			141					1.00 19.86	AAAA
ATOM	1098	CB	PHE	A	141		27.758	33.920	46.430		
	1099	CG	DHE	2	141		26.453	34.577	46.114	1.00 21.18	AAAA
ATOM								35.592	46.934	1.00 20.49	· AAAA
ATOM	1100	CD1	PHE	Ā	141		25.974				
MOTA	1101	CD3	PHF	· A	141		25.723	34.218	44.985	1.00 21.42	· AAAA
								36.242	46.638	1.00 22.45	AAAA
ATOM	1102	CEI	PHE	. 4	141					1.00 :1.76	AAAA
MOTA	1103	CE2	PHE	: A	141		24.540	34.859	44.672		
		CZ			141		24.072	35.881	45.499	1.00 `3.05	AAAA
ATOM	1104									1.00 18.68	AAAA
ATOM	1105	С	PHE	À	141		29.396	32.132			
	1106	Ò			141		30.438	32.784	45.944	1.00 19.19	AAAA
ATOM								30.930		1.00 16.93	AAAA
ATOM	1107	N			142		29.367				
MOTA	1108	CA	CYS		142		30.594	30.332	47.150	1.00 16.80	AAAA
							30.323	29.689	48.509	1.00 16.51	AAAA
MOTA	1109	CB			. 142			25.005	40 . 617	1.00 15.01	AAAA
ATOM	1110	SG	CYS	A	142		29.524		49.617		
							31.227	29.315	46.221	1.00 16.45	AAAA
MOTA	1111	С			142						AAAA
ATCM	1112	0	CYS	A	142		30.533	28.565			
					143		32.558	29.311	46.190	1.00 18.39	AAAA
ATOM	1113	N									AAAA
ATOM	1114	CA	TYF		. 143		33.340	28.394		1.00 10.03	
	1115	CB			143		34.298	29.154	44.438		AAAA
MOTA								30.214			AAAA
ATOM	1116	CG	TYF	ζ,	143		33.664			1.00 15.55	
		CDI			143		33.480	31.510	44.043		AAAA
ATOM	1117							32.473		1.00 21.63	AAAA
STOM	1118	CE1	LTYF	₹ }	143		32.856				
	1119	CD2			143		33.212	29.910			AAAA
ATOM							32.588	30.863	41.507	1.00 20.82	AAAA
ATOM	1120	CE			143						AAAA
ATOM	1121	CZ	TY	۲,	143		32.414	32.135		1.00 20.90	
					143		31.787	33.071	41.228	1.00 23.36	AAAA
ATOM	1122	OH	1.77		- 143		52		•		•

ATOM	1123	С	TYR	Α	143	34.162	27.490	46.283	1.00 19.06	AAAA
ATOM	1124	0	ጥሃጽ	Δ	143	34.319	25.289	46.032	1.00 18.40	AAAA
MOTA	1125	N			144	34.695	28.08 7	47.344	1.00 19.15	AAAA
MOTA	1126	CA	ILE	Α	144	35.490	27.350	48.315	1.00 19.97	AAAA
MOTA	1127	CB	ILE	Α	144	36.952	27.861	48.355	1.00 19.74	AAAA
ATOM	1128	CG2	ILE			37.757	27.088	49.410	1.00 18.03	
										AAAA
atom	1129	CGI	ILE	Α	144	37.584	27.671	46.965	1.00 20.12	AAAA
MOTA	1130	CD1	ILE	Α	144	39.053	28.072	46.846	1.00 21.05	AAAA
ATOM	1131	С			144	34.833	27.532	49.665	1.00 20.22	AAAA
-						34.357				
MOTA	1132		LILE				28.626	49.981	1.00 19.94	AAAA
MOTA	1133	N	ASN	A	145	34.787	26.451	50.440	1.00 20.57	AAAA
ATOM	1134	CA	ASN	Α	145	34.165	26.448	51.770	1.00 20.39	AAAA
ATOM	1135	CB			145	33.450	25.114	51.990	1.00 19.39	AAAA
	-									
ATOM	1136	CG			145	32.505	25.143	53.171	1.00 19.31	AAAA
ATOM	1137	OD1	ASN	Α	145	32.862	25.583	54.263	1.00 21.26	AAAA
ATOM	1138	ND2	ASN	Α	145	31.290	24.667	52.960	1.00 17.08	- AAAA
ATOM	1139	С			145	35.236	26.621	52.856	1.00 20.17	
									•	AAAA
MOTA	1140	0			145	35.690	25.622	53.421	1.00 19.75	AAAA
ATOM	1141	N	ASN	Α	146	35.644	27.862	53.148	1.00 20.06	AAAA
ATOM	1142	CA	ASN	Α	146	36.671	28.075	54.166	1.00 20.98	AAAA
ATOM	1143	CB			146	37.019	29.573	54.333	1.00 21.78	AAAA
MOTA	1144	CG			146	35.876	30.411	54.882	1.00 22.78	AAAA
MOTA	1145	OD1	ASN	A.	146	35.651	30.465	56.091	1.00 22.83	AAAA
ATOM	1146	ND2	ASN	Α	146	35.144	31.078	53.983	1.00 23.70	AAAA
ATOM	1147	С			146	36.307	27.413	55.496	1.00 21.18	AAAA
ATOM	1148	Õ				37.169	26.823	56.139		
-					146				1.00 21.48	AAAA
MOTA	1149	N	PRO	A	147	35.031	27.476	55.922	1.00 20.88	AAAA
ATOM	1150	CD	PRO	Α	147	33.835	28.120	55.358	1.00 21.85	AAAA
ATOM	1151	CA	PRO	Α	147	34.674	26.831	57.183	1.00 21.42	AAAA
ATOM	1152	СВ			147	33.176	27.073	57.261	1.00 21.00	
										AAAA
ATOM	1153	CG			147	33.052	28.408	56.605	1.00 20.47	AAAA
ATOM	1154	С	PRO.	Α	147	35.015	25.334	57.174	1.00 22.79	AAAA
ATOM	1155	0	PRO	Α	147	35.650	24.833	58.099	1.00 25.69	AAAA
ATOM	1156	N			148	34.603	24.616	56.136	1.00 22.34	AAAA
	1157									
ATOM		CA			148	34.889	23.193	56.070	1.00 22.23	AAAA
ATOM	1158	CB	ALA	A	148	34.260	22.561	54.825	1.00 22.87	AAAA
ATOM	1159	С	ALA	Α	148	36.378	22.998	56.054	1.00 22.33	AAAA
ATOM	1160	0	ALA	Α	148	36.912	22.249	56.861	1.00 23.42	AAAA
ATOM	1161	N			149	37.050	23.661	55.122	1.00 22.50	
										AAAA
MOTA	1162	CA	VAL			38.505	23.569	55.018	1.00 21.29	AAAA
ATOM	1163	CB	VAL	Α	149	39.066	24.581	54.002	1.00 20.46	AAAA
ATOM	1164	CG1	VAL	Α	149	40.578	24.607	54.085	1.00 19.36	AAAA
ATOM	1165		VAL			38.608	24.229	52.593	1.00 20.03	AAAA
MOTA	1166	С			149	39.164	23.848	56.367	1.00 21.48	AAAA
ATOM	1167	0	VAL			40.147	23.197	56.735	1.00 22.11	AAAA
MOTA	1168	N	GL"	Α	150	38.628	24.826	57.088	1.00 21.19	AAAA
ATOM	1169	CA	GL .			39.171	25.176	58.386	1.00 21.70	AAAA
	1170					38.973	24.043	59.368	1.00 22.31	
ATOM		C	GĽ.							AAAA
atom	1171	0	GLY			39.913	23.59 7	60.026	1.00 22.51	AAAA
ATOM	1172	N	ILE	Α	151	37.736	23.566	59.453	1.00 22.86	AAAA
ATOM	1173	CA	ILE			37.388	22.474	60.346	1.00 22.26	AAAA
ATOM	1174	CB	ILE			35.894	22.124	60.191	1.00 21.51	AAAA
MOTA	1175		ILE			35.542	20.899	61.019	1.00 21.36	AAAA
MOTA	1176	CG1	ILE	Α	151	35.051	23.329	60.627	1.00 20.39	AAAA
ATOM	1177		ILE			33.576	23.199	60.361	1.00 16.88	AAAA
	1178	C	ILE			38.265	21.243	60.096	1.00 23.29	AAAA
MOTA	11/0									
ATOM	1179	0	ILE			38.786	20.660	61.038	1.00 23.88	AAAA
ATOM	1180	N	GLU	Α	152	38.435	20.853	58.836	1.00 24.13	AAAA
ATOM	1181	CA	GLU			39.267	19.697	58.517	1.00 25.01	AAAA
	1182	СВ	GLU			39.242	19.404	57.010	1.00 25.07	
ATOM										AAAA
ATOM	1183	CG	GLU			37.910	18.886	56.526	1.00 24.56	AAAA
ATOM	1184	CD	GLU			37.500	17.570	57.198	1.00 25.00	AAAA
ATOM	1185	OE1	GLU	Α	152	36.345	17.158	57.011	1.00 26.40	AAAA
ATOM	1186		GLU			38.315	16.935	57.897	1.00 25.00	AAAA
ATOM	1187	C	GLU			40.694	19.957	58.965	1.00 26.06	AAAA
ATOM	1188	0	GLU	A	127	41.425	19.035	59.331	1.00 26.40	, AAAA

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MOTA	1189	N	TYR A	A 153	1	41.085	21.225	58.925	1.00 27.30	AAAA
ATOM	1190	CA	TYR A	A 15:	}	42.422	21.632	59.334	1.00 27.63	AAAA
ATOM	1191	CB	TYR A			42.532	23.153	59.268	1.00 26.99	AAAA
	1192	CG	TYR A			43.856	23.719	59.710	1.00 27.03	AAAA
ATOM			TYR A			44.942	23.790	58.837	1.00 27.78	AAAA
MOTA	1193						24.356	59.250	1.00 28.40	AAAA
MOTA	1194		TYR A			46.165		61.007	1.00 27.52	AAAA
MOTA	1195	CD2	TYR A			44.017	24.215			
ATOM	1196	CE2	TYR A	A 15	}	45.216	24.774	61.425	1.00 27.66	AAAA
ATOM	1197	CZ	TYR I	A 15	}	46.284	24.845	60.547	1.00 28.15	AAAA
ATOM	1198	OH	TYR I	A 15	}	47.457	25.407	60.974	1.00 28.83	AAAA
	1199	C	TYR			42.618	21.172	60.769	1.00 27.82	AAAA
MOTA			TYR			43.613	20.552	61.110	1.00 27.15	AAAA
MOTA	1200	0				41.636	21.487	61.604	1.00 29.25	AAAA
ATOM	1201	N	LEU				21.138	63.014	1.00 29.35	AAAA
MOTA	1202	CA	LEU			41.665		63.715	1.00 30.25	AAAA
ATOM	1203	CB	LEU .			40.507	21.829			
MOTA	1204	CG	LEU .	A 15	1	40.685	23.346	63.792	1.00 31.10	AAAA
ATOM	1205	CD1	LEU .	A 15	4	39.348	24.020	64.092	1.00 31.24	AAAA
ATOM	1206	CD2	LEU .	A 15	4	41.747	23.669	64.852	1.00 29.84	AAAA
	1207	C	LEU			41.625	19.639	63.263	1.00 29.73	AAAA
ATOM	1208	ō	LEU			42.313	19.151	64.150	1.00 30.51	AAAA
MOTA			ARG			40.832	18.903	62.489	1.00 28.95	AAAA
MOTA	1209	N				40.771	17.459	62.671	1.00 28.94	AAAA
MOTA	1210	CA	ARG				16.820	61.723	1.00 28.64	AAAA
MOTA	1211	CB	ARG			39.742			1.00 27.82	AAAA
ATOM	1212	CG	ARG			38.312	17.312	61.952		AAAA
ATOM	1213	CD	ARG	A 15	5	37.319	16.751	60.955	1.00 27.19	
ATOM	1214	NE	ARG	A 15	5	36.804	15.444	61.338	1.00 28.86	AAAA
ATOM	1215	CZ	ARG	A 15	5	35.939	14.742	60.612	1.00 28.93	AAAA
ATOM	1216		ARG			35.500	15.227	59.459	1.00 29.47	AAAA
	1217		ARG			35.486	13.574	61.053	1.00 28.76	AAAA
MOTA			ARG			42.158	16.853	62.438	1.00 30.20	AAAA
MOTA	1218	C				42.572	15.949	63.164	1.00 30.74	AAAA
MOTA	1219	0		A 15				61.447	1.00 30.32	AAAA
MOTA	1220	N	LYS			42.890		61.173	1.00 30.07	AAAA
ATOM	1221	CA	LYS			44.224			1.00 30.26	AAAA
MOTA	1222	CB	LYS			44.771	17.373	59.847		
ATOM	1223	CG	LYS	A 15	6	46.168		59.525	1.00 30.16	AAAA
ATOM	1224	CD	LYS	A 15	6	.46.686	17.368	58.181	1.00 31.19	AAAA
ATOM	1225	CE	LYS	A 15	6	45.884	16.813	56.986	1.00 31.70	AAAA
ATOM	1226	NZ	LYS			45.963	15.324	56.824	1.00 31.20	AAAA
	1227	C	LYS			45.167	17.202	62.306	1.00 30.08	AAAA
ATOM		Ö		A 15		46.192		62.485	1.00 29.16	AAAA
ATOM	1228			A 15		44.816		63.053	1.00 30.08	AAAA.
ATOM	1229	N				45.608		64.196	1.00 31.03	AAAA
MOTA	1230	CA		A 15				64.452	1.00 31.81	AAAA
ATOM	1231	CB		A 15		45.446		63.419	1.00 32.12	AAAA
MOTA	1232	CG		A 15		46.067		63.348	1.00 31.34	AAAA
ATOM	1233	CD		A 15		47.580				AAA
ATOM	1234	CE	LYS	A 15	7	48.080			1.00 32.66	
ATOM	1235	NZ	LYS	A 15	7	49.556		61.996	1.00 32.74	AAA,
ATOM	1236	С		A 15		45.196	17.923	65.458	1.00 31.73	· AAA
ATOM	1237	ō	LYS	A 15	7	45.652		66.558	1.00 31.93	AAAA
	1239	N		A 15		44.312		65.299	1.00 32.41	AAAA
MOTA				A 15		43.901		66.436	1.00 32.34	AAAA
MOTA	1239	CA				42.604		67.172	1.00 32.65	AAAA
MOTA	1240	С		A 15				67.980	1.00 32.85	AAAA
MOTA	1241	0		A 15		42.182			1.00 33.16	AAAA
ATOM	1242	N		A 1		41.960			1.00 33.10	AAAA
ATOM	1243	CA	PHE	A 1	9	40.712				AAAA
ATOM	1244	CB	PHE	A 15	9	40.220			1.00 34.81	
ATOM	1245	CG		A 1		41.134	20.343		1.00 34.01	AAAA
ATOM	1246		PHE			42.327	20.669			AAAA
			PHE			40.821			1.00 34.61	AAAA .
MOTA	1247	CD4	PHE	3 1	.0	43.197			1.00 33.65	AAAA
MOTA	1248	CE.	LUE	W T	, <u>,</u>	41.689				AAAA
MOTA	1249		PHE							AAAA
MOTA	1250	CZ		A 1		42.878	22.236			AAAA
ATOM	1251	С		A 1		39.645				AAAA
ATOM	1252	0		A 1		39.568				AAAA
ATOM	1253	N	LYS	A 1	50	38.83				
ATOM	1254	CA		A 1		37.79	15.415	67.936	1.00 33.11	AAAA
71011								-		•

ATOM	1255	СВ	LYS	Α	160		38.060	14.140	68.763	1.00 33.97	AAAA
ATOM	1256	CG	LYS	Α	160		39.410	13.491	68.457	1.00 35.31	AAAA
ATOM	1257	CD	LYS				39.833	12.364	69.429	1.00 36.48	AAAA
ATOM	1258	CE	LYS				39.095	11.037	69.243	1.00 37.97	AAAA
		NZ	LYS				37.636	11.080	69.568	1.00 39.67	AAAA
MOTA	1259										
MOTA	1260	C	LYS				36.385	15.941	68.210	1.00 31.68	AAAA
MOTA	1261	0			160		35.405	15.290	67.887	1.00 31.51	AAAA
MOTA	1262	N	ARG				36.291	17.114	68.819	1.00 31.11	AAAA
MOTA	1263	CA	ARG	Α	161		35.003	17.719	69.114	1.00 30.92	AAAA
MOTA	1264	CB	ARG	Α	161		34.655	17.592	70.604	1.00 31.78	AAAA
ATOM	1265	CG	ARG	A	161		34.451	16.157	71.102	1.00 32.91	AAAA
ATOM	1266	CD	ARG	Α	161		33.994	16.126	72.570	1.00 33.26	AAAA
ATOM	1267	NE	ARG	А	161		34.929	16.797	73.476	1.00 34.01	AAAA
ATOM	1268	CZ			161		36.183	16.404	73.698	1.00 34.88	AAAA
MOTA	1269		ARG		_		36.675	15.334	73.081	1.00 34.89	AAAA
	1270		ARG				36.954	17.084	74.537	1.00 34.71	AAAA
MOTA	1271	C			161		35.061	19.185	68.714	1.00 30.28	AAAA
ATOM			ARG				35.365	20.059	69.529	1.00 30.20	AAAA
MOTA	1272	0					34.774	19.433	67.437	1.00 28.86	
MOTA	1273	N			162						AAAA
ATOM	1274	CA			162		34.788	20.774	66.862	1.00 26.41	AAAA
ATOM	1275	СВ			162		35.443	20.762	65.464	1.00 26.87	AAAA
MOTA	1276		ILE				35.453	22.160	64.872	1.00 26.91	AAAA
MOTA	1277		ILE				36.877	20.234	65.578	1.00 28.19	AAAA
MOTA	1278	CD1	ILE	Α	162		37.614	20.090	64.240	1.00 28.24	AAAA
MOTA	1279	С	ILE	Α	162		33.369	21.283	66.731	1.00 24.08	AAAA
MOTA	1280	0	ILE	Α	162		32.485	20.572	66.267	1.00 24.40	AAAA
ATOM	1281	N	LEU	Α	163		33.153	22.519	67.153	1.00 22.25	AAAA
ATOM	1282	CA	LEU	Α	163		31.838	23.126	67.074	1.00 20.48	AAAA
ATOM	1283	CB	LEU	Α	163		31.408	23.671	68.440	1.00 20.97	AAAA
ATOM	1284	CG	LEU	Α	163		30.099	24.477	68.486	1.00 20.50	AAAA
ATOM	1285		LEU				28.998	23.695	67.799	1.00 19.07	AAAA
ATOM	1286		LEU				29.738	24.802	69.950	1.00 19.76	AAAA
ATOM	1287	C			163		31.801	24.241	66.055	1.00 18.76	AAAA
	1288	Ö			163		32.756	24.986	65.894	1.00 18.41	AAAA
ATOM	1289	N			164		30.677	24.344	65.368	1.00 17.85	AAAA
MOTA								25.372	64.373	1.00 17.05	AAAA
ATOM	1290	CA			164		30.496	24.768	62.983	1.00 17.10	AAAA
MOTA	1291	CB			164		30.644			1.00 17.43	AAAA
ATOM	1292	CG			164		30.484	25.783	61.900 61.701	1.00 17.70	AAAA
MOTA	1293		TYR				31.444	26.772			
MOTA	1294		TYR				31.280	27.734	60.721	1.00 17.35	AAAA
ATOM	1295	CD2	TYR				29.350	25.781	61.092	1.00 17.95	AAAA
ATOM	1296	CE2	TYR				29.173	26.746	60.103	1.00 18.03	AAAA
MOTA	1297	CZ			164		30.138	27.717	59.919	1.00 17.30	AAAA
MOTA	1298	OH	TYR	Α	164		29.955	28.647	58.926	1.00 16.70	AAAA
MOTA	1299	С	TYR	Α	164		29.123	26.016	64.514	1.00 15.85	AAAA
ATOM	1300	0	TYR	Α	164		28.101	25.351	64.416	1.00 16.44	AAAA
ATOM	1301	N	ILE	Α	165		29.115	27.319	64.743	1.00 15.54	AAAA
MOTA	1302	CA	ILE	Α	165 ·	•	27.878	28.088	64.897	1.00 15.71	AAAA
ATOM	1303	CB	ILE	Α	165		27.869	28.819	66.250	1.00 15.18	AAAA
ATOM	1304	CG2	ILE				26.621	29.685	66.374	1.00 13.94	AAAA
ATOM	1305		ILE				28.000	27.797	67.386	1.00 13.94	AAAA
ATOM	1306		ILE				28.356	28.421	68.747	1.00 13.94	AAAA
	1307	c			165		27.808	29.124	63.754	1.00 16.00	AAAA
ATOM	1308				165		28.711	29.941	63.576	1.00 16.56	AAAA
ATOM		0					26.721	29.087	63.001	1.00 16.18	AAAA
ATOM	1309	N			166			29.962	61.865	1.00 16.16	AAAA
ATOM	1310	CA			166		26.524				
MOTA	1311	CB			166		26.240	29.066	60.651	1.00 18.05	AAAA
ATOM	1312	CG			166		26.238	29.809	59.329	1.00 19.21	AAAA
ATOM	1313		ASP				25.353	30.659	59.114	1.00 18.36	AAAA
ATOM	1314	OD2	ASP				27.131	29.521	58.495	1.00 19.19	·-AAAA
ATOM	1315	С	ASP	Α	166		25.342	30.904	62.169	1.00 17.57	AAAA
ATOM	1316	0			166		24.206	30.459	62:321	1.00 17.26	AAAA
ATOM	1317	N			167		25.605	32.202	62.274	1.00 16.67	AAAA
MOTA	1318	CA			167		24.526	33.135	62.562	1.00 16.89	AAAA
ATOM	1319	CB			167		24.923	34.116	63.663	1.00 17.27	AAAA
	1320	CG			167		25.499	33.529	64.954	1.00 18.37	AAAA
ATOM	1750	ÇŪ		••				555		·	

						24 653	CE 022	1 00 10 72	AAAA
MOTA	1321		LEU A		25.760	34.671	65.933	1.00 18.72	
MOTA	1322	CD2	LEU A 1	167	24.566	32.507	65.547	1.00 17.06	AAAA
	1323		LEU A		24.146	33.897	61.307	1.00 17.18	AAAA
MOTA					23.390	34.850	61.358	1.00 17.21	AAAA
ATOM	1324		LEU A						AAAA
ATOM	1325	N	ASP A	168	24.683	33.457	60.178	1.00 17.83	
	1326	CA	ASP A	168	24.382	34.067	58.904	1.00 17.84	AAAA
MOTA					25.178	33.397	57.807	1.00 20.42	AAAA
ATOM	1327		ASP A					1.00 21.41	AAAA
MOTA	1328	CG	ASP A	168	25.140	34.162	56.529		
	1329	С	ASP A.	168	22.915	33.783	58.660	1.00 18.35	AAAA
MOTA		_	ASP A		22.419	32.722	59.032	1.00 19.62	AAAA
MOTA	1330	-					56.330	1.00 22.42	AAAA
MOTA	1331	OD1	ASP A	168 -	26.066	34.972			
	1332	on2	ASP A	168	24.186	33.971	55.746	1.00 21.79	AAAA
MOTA			ALA A		22.239	34.717	58.010	1.00 17.98	AAAA
MOTA	1333						57.708	1.00 17.36	AAAA
ATOM	1334	CA	ALA A		20.824	34.601			
ATOM	1335	CB	ALA A	169	20.348	35.860	57.007	1.00 17.00	AAAA
	1336	c	ALA A		20.439	33.377	56.88 7	1.30 18.64	AAAA
MOTA					19.255	33.043	56.819	1.00 19.46	AAAA
ATOM	1337	0	ALA A					1.00 18.71	AAAA
ATOM	1338	N	HIS A	170	21.412	32.712	56.262		
	1339	CA	HIS A	170	21.107	31.518	55.464	1.00 18.43	AAAA
ATOM					21.802	30.265	55.986	1.00 18.02	AAAA
MOTA	1340	С	HIS A				56.514	1.00 17.20	AAAA
MOTA	1341	0	HIS A		22.910	30.332			
	1342	CB	HIS A	170	21.539	31.678	54.004	1.00 18.79	AAAA
ATOM			HIS A		21.137	32.968	53.386	1.00 17.65	AAAA
ATOM	1343	CG				34.162	53.828	1.00 18.08	AAAA
ATOM	1344	ND1	HIS A	170	21.644				
MOTA	1345	CE1	HIS A	170	21.112	35.081	53.054	1.00 18.95	AAAA
	1346		HIS A		20.301	33.194	52.348	1.00 18.81	AAAA
MOTA					20.291	34.544	52.140	1.00 19.66	AAAA
ATOM	1347	NE2	HIS A					1.00 17.53	AAAA
MOTA	1348	N	HIS A	171	21.142	29.124	55.793		
ATOM	1349	CA	HIS A	171	21.662	27.822	56.193	1.00 16.38	AAAA
			HIS A		20.644	26.740	55.830	1.00 16.32	AAAA
MOTA	1350	CB				25.337	55.958	1.00 15.91	AAAA
ATOM	1351	CG	HIS A		21.157			1.00 14.14	AAAA
ATOM	1352	CD2	HIS A	171	21.241	24.336	55.051		
	1353		HIS A		21.602	24.807	57.151	1.00 16.79	AAAA
MOTA					21.937	23.543	56.973	1.00 14.91	AAAA
MOTA	1354	CEI	HIS A	1/1			55.709	1.00 15.45	AAAA
MOTA	1355	NE2	HIS A	171	21.725	23.234			AAAA
MOTA	1356	С	HIS A	171	22.982	27.522	55.509	1.00 16.94	
	1357	ō	HIS A		23.146	27.725	54.318	1.00 18.71	AAAA
MOTA					23.926	27.019	56.279	1.00 16.99	AAAA
ATOM	1358	N	CYS A				55.778	1.00 16.23	AAAA
ATOM	1359	CA	CYS A		25.237	26.670			AAAA
ATOM	1360	CB	CYS A	172	26.219	26.721	56.947	1.00 17.89	
		SG	CYS A		25.638	25.773	58.397	1.00 17.89	AAAA
MOTA	1361				25.205	25.271	55.210	1.00 16.57	AAAA
ATOM	1362	C	CYS A					1.00 17.66	AAAA
ATOM	1363	0	CYS A	172	25.947	24.413	55.670	1.00 17.00	
	1364	N	ASP A	173	24.364	25.026	54.214	1.00 18.25	AAAA
ATOM			ASP A		24.253	23.680	53.620	1.00 19.91	AAAA
MOTA	1365	CA	ASP A	1/3		23.699	52.397	1.00 20.86	AAAA
ATOM	1366	CB	ASP A	1/3	23.342				AAAA
MOTA	1367	CG	ASP A	173	23.780	24.719	51.358	1.00 21.90	
			ASP A		23.257	24.640	50.217	1.00 21.35	AAAA
MOTA	1368	051	202 3	172	24.624	25.5 97	51.687	1.00 21.35	AAAA
MOTA	1369	OD2	ASP A	1/3			53.227	1.00 21.02	AAAA
ATOM	1370	С	ASP A	173	25.573	23.021		1.00 22.02	AAAA
	1371	0	ASP A	173	25.673	21.785		1.00 22.79	
MOTA			GLY A	174	26.579	23.832	52.912	1.00 20.03	AAAA
MOTA	1372	N	GL/I A	173				1.00 19.72	AAAA
ATOM	1373	CA	GLY A		27.870			1.00 20.27	AAAA
MOTA	1374	С	GLY A	174	28.537	22.680		1.00 20.27	
	1375	ō	GLY A		29.110	21.599	53.711	1.00 19.77	AAAA
MOTA					28.448			1.00 21.38	AAAA
ATOM	1376	N	VAL A					1.00 22.26	AAAA
MOTA	1377	CA	VAL .A		29.056			1.00 22.20	AAAA
ATOM	1378	CB	VAL A	175	29.032			1.00 23.15	
		201	VAL A	175	29.853			1.00 22.84	AAAA
ATOM	1379	(61	. VAL A	175	29.562				AAAA
ATOM	1380	CG2	VAL A	1/3					
ATCM	1381	С	VAL A	. 175	28.302		56.654		
	1382	ŏ	VAL A		28.893	20.803	57.210	1.00 23.74	AAAA
ATOM			GLN A		26.993			1.00 24.80	AAAA
ATOM	1383	N			26.171	20.601			AAAA
ATOM	1384	CA	GLN A						
ATCM	1385	CB	GLN A	176	24.689				AAAA
•	1386		GLN A		23.799	19.735	57.036	1.00 26.23	MAMA
MOTA	7300		CDI4 N				-	•	•

30036	1207	CD	CTN 3 176					
MOTA	1387	CD	GLN A 176		20.094	57.069	1.00 27.17	AAAA
ATOM	1388	OE1	GLN A 176	21.902	20.879	57.911	1.00 28.24	AAAA
MOTA	1389	NE2	2 GLN A 176	21.556	19.522	56.151	1.00 26.54	AAAA
MOTA	1390	С	GLN A 176	26.512	19.293	56.180	1.00 25.67	
ATOM	1391	ō	GLN A 176		18.285			AAAA
						56.820	1.00 26.98	AAAA
ATOM	1392	N	GLU A 177			54.853	1.00 26.34	AAAA
MOTA	1393	CA	GLU A 177	26.786	18.117	54.073	1.00 26.18	AAAA
MOTA	1394	CB	GLU A 177	26.746	18.468	52.580	1.00 27.13	AAAA
MOTA	1395	CG	GLU A 177	26.769	17.269	51.628	1.00 29.77	AAAA
ATOM	1396	CD	.GLU A 177		17.660	50.147	1.00 31.29	
ATOM	1397		GLU A 177		17.935			AAAA
						49.500	1.00 31.35	AAAA
MOTA	1398		GLU A 177		17.703	49.636	1.00 32.05	AAAA
ATOM	1399	С	GLU A 177		17.556	54.460	1.00 26.38	AAAA
ATOM	1400	0	GLU A 177		16.349	54.595	1.00 25.41	AAAA
ATOM	1401	N	ALA A 178	29.115	18.458	54.659	1.00 27.58	AAAA
ATOM	1402	CA	ALA A 178		18.119	55.004	1.00 27.66	- AAAA
MOTA	1403	СВ	ALA A 178		19.385	54.994		
ATOM	1404	C	ALA A 178				1.00 26.20	AAAA
					17.370	56.318	1.00 28.33	AAAA
ATOM	1405	0	ALA A 178		16.626	56.439	1.00 29.44	AAAA
ATOM	1406	N	PHE A 179		17.564	57.308	1.00 28.25	AAAA
ATOM	1407	CA	PHE A 179		16.852	58.561	1.00 29.20	AAAA
ATOM	1408	CB	PHE A 179	30.570	17.794	59.624	1.00 29.35	AAAA
ATOM	1409	CG	PHE A 179		18.572	59.171	1.00 30.26	AAAA
ATOM	1410		PHE A 179		19.777	58.497	1.00 30.20	
MOTA	1411		PHE A 179		18.069	59.339		AAAA
							1.00 30.37	AAAA
MOTA	1412		PHE A 179		20.470	57.993	1.00 31.20	AAAA
MOTA	1413		PHE A 179		18.749		1.00 31.74	AAAA
MOTA	1414	CZ	PHE A 179		19.960	58.161	1.00 31.81	AAAA
ATOM	1415	С	PHE A 179	28.760	16.180	59.040	1.00 30.33	AAAA
ATOM	1416	0	PHE A 179	28.624	15.810	60.215	1.00 31.82	AAAA
ATOM	1417	N	TYR A 180		15.994	58.105	1.00 29.18	AAAA
ATOM	1418	CA	TYR A 180		15.379			
	1419					58.389	1.00 28.99	AAAA
ATOM		CB	TYR A 180		15.343	57.123	1.00 28.30	AAAA
MOTA	1420	CG	TYR A 180		15.422	57.384	1.00 28.27	AAAA
ATOM	1421	CDI	TYR A 180	23.392	14.386	57.021	1.00 27.05	AAAA
MOTA	1422	CE1	TYR A 180		14.491	57.197	1.00 28.51	AAAA
MOTA	1423	CD2	TYR A 180	23.686	16.573	57.942	1.00 29.34	AAAA
ATOM	1424	CE2	TYR A 180	22.316	16.691	58.125	1.00 29.27	AAAA
ATOM	1425	CZ	TYR A 180		15.645	57.746	1.00 29.33	AAAA
ATOM	1426	ОН	TYR A 180		15.775	57.893	1.00 30.83	AAAA
ATOM	1427	c	TYR A 180		13.970			
						58.940	1.00 28.79	AAAA
MOTA	1428	0	TYR A 180		13.577	59.785	1.00 28.71	AAAA
ATCM	1429	N	ASP A 181	27.662	13.214	. 58 . 472	1.00 29.03	AAAA
ATOM	1430	CA	ASP A 181	27.813	11.828	58.914	1.00 28.49	AAAA
ATOM	1431	CB	ASP A 181	28.140	10.930	57.715	1.00 27.59	AAAA
ATOM	1432	CG	ASP A 181	29.548	11 122	57.229	1.00 28.82	AAAA
ATOM	1433	OD1	ASP A 181	29:981	12 292	57.183	1.00 29.25	AAAA
ATOM	1434		ASP A 181	30.216	,10 119	56.887	1.00 28.68	AAAA
ATOM	1435	c	ASP A 181	28.863	11.631	60.009	1.00 27.67	
	1436	0.						AAAA
ATOM			ASP A 181	29.271	10.504	60.293	1.00 27.57	AAAA
ATCM	1437	N	THR A 182	29.308	12.713	60.628	1.00 26.27	AAAA
atom	1438	CA	THR A 182	30.284	12.544	61.689	1.00 26.22	AAAA
MOTA	1439	CB	THR A 182	31.670	13.118	61.317	1.00 25.92	AAAA
ATCM	1440	OG1	THR A 182	32.564	12.935	62.416	1.00 25.06	AAAA
MOTA	1441		THR A 182	31.577	14.594	60.974	1.00 25.25	AAAA
ATOM	1442	c	THR A 182	29.792	13.223	62.934	1.00 25.25	AAAA
	1443	ō						
ATOM			THR A 182	28.942	14.102	62.863	1.00 26.35	AAAA
ATCM	1444	N	ASP A 183	30.327	12.804	64.071	1.00 25.86	AAAA
ATOM	1445	CA	ASP A 183	29.953	13.370	65.355	1.00 26.12	AAAA
ATOM	1446	CB	ASP A 183	29.468	12.260	66.274	1.00 27.10	AAAA
ATOM	1447	CG	ASP A 183	30.515	11.194	66.488	1.00 28.80	AAAA
ATOM	1448		ASP A 183	31.063	10.691	65.480	1.00 29.78	AAAA
ATOM	1449		ASP A 183	30.781	10.852	67.657	1.00 29.21	AAAA
ATOM	1450	C	ASP A 183	31.126	14.120	65.995	1.00 25.21	
								AAAA
ATCM	1451	0	ASP A 183	31.034	14.566	67.146	1.00 26.65	AAAA
ATCM	1452	N	GLN A 184	32.229	14.254	65.254	1.00 26.05	AAAA
						-		•

	1 4 5 2	C3	GLN A		10/	-	33.381	14.983	65.766	1.00 25.85	AAAA
MOTA	1453		GLN A				34.674	14.510	65.095	1.00 26.30	ሕ ሕ ልል
ATOM	1454		GLN A				34.920	13.030	65.303	1.00 27.42	AAAA
ATOM	1455		GLN A				36.273	12.583	64.822	1.00 28.40	AAAA
ATOM	1456		GLN A				36.685	12.905	63.709	1.00 30.05	AAAA
ATOM	1457		GLN A				36.970	11.816	65.651	1.00 29.24	AAAA
MOTA	1458		GLN A				33.159	16.474	65.536	1.00 25.22	AAAA
MOTA	1459	-					33.734	17.316	66.220	1.00 24.57	AAAA
ATOM	1460	0	GLN A				32.290	16.791	64.584	1.00 25.17	AAAA
MOTA	1461		VAL A				31.975	18.182	64.291	1.00 24.49	AAAA
MOTA	1462		VAL A				32.324	18.563	62.832	1.00 23.20	AAAA
MOTA	1463	CB	VAL A				32.324	20.060	62.599	1.00 19.72	AAAA
ATOM	1464		VAL A				32.043	18.205	62.543	1.00 20.67	AAAA .
MOTA	1465		VAL				30.494	18.421	64.501	1.00 24.81	AAAA
MOTA	1466	C	VAL A				29.664	17.787	63.844	1.00 27.07	AAAA
MOTA	1467	0	VAL				30.162	19.311	65.434	1.00 23.40	AAAA
ATOM	1468	N	PHE A				28.768	19.645	65.684	1.00 20.31	AAAA
MOTA	1469	CA	PHE 2		_		28.513	19.937	67.164	1.00 19.77	AAAA
ATOM	1470	CB	PHE .				27.057	20.037	67.500	1.00 18.55	AAAA
MOTA	1471	CG	PHE .				26.359	18.918	67.945	1.00 17.70	AAAA
ATOM	1472		PHE .				26.358	21.213	67.263	1.00 17.46	AAAA
MOTA	1473		PHE .					18.964	68.147	1.00 17.35	AAAA
MOTA	1474		PHE .				24.999	21.271	67.459	1.00 18.83	AAAA
MOTA	1475		PHE .				24.997	20.138	67.905	1.00 18.67	AAAA
MOTA	1476	CZ	PHE				24.308		64.895	1.00 19.18	AAAA
MOTA	1477	С	PHE		_		28.464	20.911	65.129	1.00 13.10	AAAA
MOTA	1478	0	PHE				29.079	21.940	63.964	1.00 18.34	AAAA
ATOM	1479	N	VAL				27.520	20.834	63.160	1.00 16.47	AAAA
MOTA	1480	CA	VAL				27.137	21.993 21.630	61.655	1.00 14.30	AAAA
MOTA	1481	CB	VAL				27.006		60.828	1.00 10.34	AAAA
MOTA	1482		VAL				26.628	22.869	61.160	1.00 12.07	AAAA
MOTA	1483		VAL				28.314	21.031 22.511	63.665	1.00 17.43	AAAA
MOTA	1484	С	VAL				25.806		63.792	1.00 16.95	AAAA
MOTA	1485	0	VAL				24.852	21.746 23.809	63.960	1.00 18.66	AAAA
ATOM	1486	И	LEU				25.763 24.555	24.507	64.460	1.00 20.51	AAAA .
MOTA	1487	CA	LEU				24.752	24.995	65.914	1.00 21.24	AAAA
ATOM	1488	CB	LEU				23.702	26.019	66.395	1.00 20.80	AAAA
ATOM	1489	CG	LEU				22.365	25.323	66.493	1.00 19.77	AAAA
MOTA	1490		LEU				24.085	26.627	67.750	1.00 20.63	AAAA
ATOM	1491		LEU				24.297	25.735	63.591	1.00 20.41	AAAA
MOTA	1492	С	LEU				25.223	26.484	63.288	1.00 21.86	AAAA
MOTA	1493	0	LEU				23.049	25.987	63.233	1.00 19.32	AAAA
ATOM	1494	N	SER				22.786	27.130	62.381	1.00 18.06	AAAA
ATOM	1495	CA	SER				22.970	26.715	60.906	1.00 18.54	AAAA
MOTA	1496	CB	SER				22.559	27.731	59.998	1.00 17.47	AAAA
ATOM	1497	OG					21.418		62.554	1.00 17.90	AAAA
MOT A	1498	C	SER SER	A	100		20.404	27.051	62.540	1.00 19.54	AAAA
MO', A	1499	0			190		21.386	29.067	62.722	1.00 16.97	AAAA
A.OM	1500	N	LEU				20.117	29.772	62.797	1.00 18.49	AAAA
ATOM	1501	CA	LEU				20.097	30.865	63.886	1.00 17.78	AAAA
ATOM	1502	ÇB			190 -		20.534	30.600	65.337		AAAA
MOTA	1503	CG	LEU				19.643	31.406	66.266	1.00 15.50	AAAA
ATOM	1504		LEU				20.455	29.147	65.686	1.00 15.15	AAAA
ATOM	1505				190		20.111	30.408	61.416	1.00 19.35	AAAA
MOTA	1506	Ç					21.136	30.891	60.967	1.00 19.75	AAAA
ATOM	1507	 O			190 191		18.975	30.397	60.736	1.00 21.75	AAAA
ATOM	1508	Ŋ					18.897	30.955	59.383	1.00 23.55	AAAA
MOTA	1509	CA			191		19.626	30.013	58.426	1.00 23.63	AAAA
ATOM	1510	CB			191		19.020	28.597	58.533	1.00 24.26	
MOTA	1511	CG			191		19.137	27.485	59.009	1.00 23.78	AAAA
ATOM	1513		HIS					28.217	58.217	1.00 24.73	AAAA
ATOM	1513	ND1	HIS	Ä	101		17.869 17.709	26.217	58.491	1.00 23.90	AAAA
ATOM	1514	CEI	HIS	A	101		18.849	26.467		1.00 24.51	AAAA
MOTA	1515		HIS								AAAA
ATOM	1516	C			191		17.446				AAAA
ATOM	1517	0			191		16.519 17.249				AAAA
MOTA	1518	N	GLN	A	. 174		11.243	JI. / 07			•

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MOTA	1519	CA	GLN A	192	15.899	31.959	57.269	1.00	25.77	AAAA
MOTA	1520	CB	GLN A	192	15.881	32.896	56.060		26.51	AAAA
ATOM	1521	CG	GLN A	192	16.467	34.271	56.325		26.99	AAAA
ATOM	1522	CD	GLN A	192	16.581	35.076	55.062		27.98	AAAA
MOTA	1523	OE1	GLN A	192	15.583	35.496	54.493		30.48	AAAA
ATOM	1524	NE2			17.802	35.274	54.595		29.04	AAAA
ATOM	1525	С	GLN A		15.463	30.573	56.832		25.77	AAAA
ATOM	1526	0	GLN A		16.211	29.865	56.169		26.73	AAAA
MOTA	1527	N	SER A		14.259	30.184	57.214		25.48	AAAA
ATOM	1528	CA	SER A		13.750	28.877	56.863		24.51	AAAA
· ATOM	1529	CB	SER A		12.288	28.788	57.286		23.77	AAAA
ATOM	1530	OG	SER A		11.753	27.517	57.010		24.81	AAAA
ATOM	1531	С	SER A		13.906	28.597	55.361		24.53	AAAA
ATOM	1532	0	SER A	193	13.736	29.479	54.522		22.32	AAAA
ATOM	1533	Ν.	PRO A	194	14.226	27.348	55.007		25.69	AAAA
ATOM	1534	CD	PRO A	194	14.411	26.167	55.862		25.02	AAAA
ATOM	1535	CA	PRO A	194	14.399	26.976	53.604		27.05	AAAA
ATOM	1536	CB	PRO A	194 🐇	14.906	25.535	53.697		26.30	AAAA
ATOM	1537	CG	PRO A	194	15.479	25.466	55.124		26.44	AAAA
MOTA	1538	С	PRO A	194	13.076	27.057	52.849	1.00	27.79	AAAA
ATOM	1539	0	PRO A	194	13.066	27.057	51.625	1.00	28.82	AAAA
MOTA	1540	N	GLU A		11.966	27.133	53.582	1.00	28.29	AAAA
ATOM	1541	CA	GLU A		10.656	27.187	52.950		29.08	AAAA
ATOM	1542	CB	GLU A	195	9.534	27.030	. 54.001	1.00	31.08	AAAA
MOTA	1543	CG	GLU A		9.070	28.294	54.722	1.00	35.07	AAAA
ATOM	1544	CD	GLU A		7.850	28.980	54.064	1.00	38.05	AAAA
MOTA	1545		GLU A		7.389	30.017	54.601	1.00	38.80	AAAA
ATOM	1546		GLU A		7.342	28.487	53.024	1.00	39.20	AAAA
ATOM	1547	C	GLU A		10.483	28.471	52.150		28.05	AAAA
MOTA	1548	0	GLU A		9.722	28.512	51.189		28.57	AAAA
MOTA	1549	N	TYR A		11.223	29.510	52.514		27.39	AAAA
MOTA	1550	CA	TYR A		11.108	30.769	51.802		25.80	AAAA
ATOM	1551	CB	TYR A		10.275	31.743	52.645		24.97	
MOTA	1552 1553	CG	TYR A		10.971	32.281	53.868		23.41	AAAA
ATOM	1554		TYR A		11.911	33.306	53.765		23.99	AAAA
ATOM ATOM	. 1555		TYR A		12.559 10.697	33.805 31.768	54.892		23.44	AAAA
ATOM	1556		TYR A		11.336	32.256	55.126 56.254		23.24 23.93	AAAA
ATOM	1557	CZ	TYR A		12.265	33.270	56.133		24.07	AAAA
MOTA	1558	OH	TYR A		12.913	33.731	57.247		25.06	AAAA AAAA
ATOM	1559	C	TYR A		12.450	31.406	51.411		24.97	AAAA
ATOM	1560	ō	TYR A		12.475	32.495	50.840		25.14	AAAA
ATOM	1561	N	ALA A		13.563	30.737	51.686		23.81	AAAA
ATOM	1562	CA	ALA A		14.855	31.330	51.337		23.32	AAAA
ATOM	1563	CB	ALA A		15.350	32.220	52.488		23.33	AAAA
ATOM -	1564	С	ALA A	197	15.952	30.356			22.74	AAAA
ATOM	1565		ALA A		15.951	29.207			22.47	AAAA
ATOM -	1566	N	PHE A-	198	16, 900		50.16~		23.23	AAAA
ATOM	1567	CA	PHE A	198 -	18.062	30.081	49.741	1.00	23.68	AAAA
MOTA	1568	CB	PHE A	198 .	19.083	31.006	49.069	1.00	23.33	AAAA
MOTA	1569	CG	PHE A	198	20.250	30.280	48.464	1.00	22.98	AAAA
ATOM	1570		PHE A 1		20.151	29.713	47.203	1.00	22.75	AAAA
ATOM	1571		PHE A 1		21.436	30.127	49.175	1.00	23.32	AAAA
ATOM	1572		PHE A 1		21.207	29.003	46.645	1.00	22.13	AAAA
ATOM	1573		PHE A 1		22.512	29.408	48.622		22.83	AAAA
MOTA	1574	CZ	PHE A 1		22.386	28.849	47.351			· AAAA
MOTA	1575	С	PHE A		18.689	29.490	51.008		23.69	AAAA
MOTA	1576	0	PHE A			30.171	52.012		22.85	AAAA
ATOM	1577	N	PRO A 1		19.166	28.236	50.954		23.96	AAAA
ATOM	1578	CD	PRO A 1		19.833	27.639	52.123		24.26	AAAA
ATOM	1579	CA	PRO A 1		19.199	27.286	49.837		24.70	AAAA
ATOM	1580	CB	PRO A I		20.163	26.222	50.357		23.30	AAAA
ATOM	1581	CG	PRO A 1		19.797	26.162	51.782		23.21	AAAA
ATOM	1582	C	PRO A 1		17.885	26.679	49.326		25.22	AAAA
ATOM	1583	0	PRO A I		17.866	26.145	48.215		26.24	AAAA
ATOM	1584	N	PHE A 2	200	16.811	26.756	50.116	1.00	25.09	AAAA

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				•				40 767	1 00	26.29	AAAA
ATOM	1585	CA ;	PHE A 2	00	15.497		6.190	49.763		25.65	AAAA
MOTA	1586		PHE A 2		15.064		6.567	48.340		24.65	AAAA
ATOM	1587		PHE A 2		14.863		8.035	48.122		24.65	AAAA
ATOM	1588	CD1	PHE A 2	00	15.806		8.781	47.439		23.79	AAAA
ATOM	1589	CD2	PHE A 2	00	13.73		8.671	48.608			AAAA
ATOM_	1590		PHE A 2		15.63		0.125	47.246		24.41	AAAA
ATOM	1591		PHE A 2		13.552		0.035	48.418		24.94	AAAA AAAA
ATOM	1592	CZ	PHE A 2	00	14.499		0.760	47.738		24.57	
ATOM	1593	С	PHE A 2	00	15.41	-	4.656	49.863		28.54	AAAA
ATOM	1594	0	PHE A 2	00	14.38		4.096	50.251		28.76	AAAA
ATOM	1595	N	GLU A 2	01	16.49		23.981	49.504		29.67	AAAA
MOTA	1596		GLU A 2		16.53		22.528	49.524		31.88	AAAA
ATOM	1597		GLU A 2		17.43		22.045	48.392		32.71	AAAA
ATOM	1598		GLU A 2		16.89	7 2	22.415	47.017		34.87	AAAA
ATOM	1599		GLU A 2		17.89		22.147	45.912		35.14	AAAA
ATOM	1600	OE1	GLU A 2	201	18.29	9 2	20.982	45.735		36.09	- AAAA
ATOM	1601	OE2	GLU A 2	201	18.28		23.112	45.221		36.30	AAAA
ATOM	1602		GLU A 2		16.99		21.894	50.835		32.77	AAAA
ATOM	1603		GLU A 2		16.80		20.690	51.046		33.44	AAAA
MOTA	1604	N	LYS A 2		17.59		22.690	51.711		32.31	AAAA
ATOM	1605	CA	LYS A 2	202	18.10		22.168	52.974		32.09	AAAA
MOTA	•	CB	LYS A 2		19.56		21.750	52.811		33.02	AAAA
ATOM	1607	CG	LYS A 2	202	19.83		20.847	51.623		34.95	AAAA
ATOM	1608	CD	LYS A 2		21.33		20.619	51.436		37.92	AAAA
ATOM	1609	CE	LYS A 2	202	21.65		19.804	50.169		39.19	AAAA
ATOM	1610	NZ	LYS A 2	202	23.12	20	19.522	49.988		38.58	AAAA
ATOM	1611	C	LYS A 2		17.99		23.241	54.037		30.85	AAAA
ATOM	1612	0	LYS A		17.70		24.389	53.739		30.49	AAAA
MOTA	1613	N	GLY A		18.23		22.867	55.281		30.81	AAAA
ATOM	1614	CA	GLY A		18.15		23.831	56.356		30.86	AAAA
ATOM	1615	C	GLY A	203	16.99		23.578	57.280		30.84	AAAA
ATOM	1616	ō	GLY A	203	16.82		24.285	58.272		31.58	AAAA
ATOM		N	PHE A		16.18		22.570	56.965		30.54	AAAA
ATOM	1618	CA	PHE A	204	15.02		22.241	57.797		30.51	AAAA
ATOM	1619	CB	PHE A	204	14.06		21.317	57.058		29.06	AAAA AAAA
ATOM	1620	CG	PHE A		13.52		21.890	55.787		27.13	AAAA
ATOM	1621	CD1	PHE A	204	14.22		21.762	54.601		26.52	AAAA
MOTA	1622	CD2	PHE A	204	12.30		22.548	55.779		26.44	AAAA
ATOM	1623	CE1	PHE A	204	13.71		22.276	53.420		26.69	AAAA
ATOM	1624	CE2	PHE A	204	11.78	86	23.069	54.600		25.65	AAAA
ATOM	1625	CZ	PHE A		12.49		22.931	53.416		30.87	AAAA
ATOM	. 1626	С	PHE A		15.40		21.590	59.127		0 31.12	AAAA
ATOM	1627	0	PHE A		16.39		20.875	59.228		0 31.22	AAAA
ATOM	1628	N	LEU A		14.5		21.844	60.139		0 31.43	AAAA
ATOM	1629	CA	LEU A	205	14.7		21.329	61.489		0 31.42	AAAA
ATOM	1630	CB	LEU A	215	13.5		21.691		1.0	0 31.76	AAAA
MOTA	- 1631	CG	LEU A	235	13.6		21.078		1.0	0 32.36	AAAA
ATOM	1632	CD1	LEU A	2.15	14.8		21.492		1 0	0 32.30	AAAA
MOTA	1633	CD2	LEU A	205	12.3		21.516		1.0	0 31.35	AAAA
MOTA	1634	C	LEU A		15.0		19.829			0 31.40	
MOTA	1635	0	LEU A		15.7		19.392	62.340		0 31.79	
ATOM	1636	N	GLU A		14:4		19.059	60.707		0 32.08	
ATOM	1637	CA	GLU A		14.5		17.603			0 33.18	
ATOM	1638	CB.	GLU A	206	13.4		17.054			0 34.20	
ATOM	1639	CG	GLU A	206	12.0		17.651			0 33.44	
ATOM	1640	CD	GLU A	206	11.9		19.136			0 33.32	
ATOM	1641	OE1	GLU A	206	10.8		19,675			0 35.12	
ATOM	1642	OE2	GLU A		13.0		19:777			0 32.34	
ATOM	1643	С	GLU A		15.8		17.045			0 31.83	
ATOM	1644	၁	GLU A		16.2		15.909			0 32.48	
ATOM	1645	N	GLU A		16.6		17.847			0 32.40	
MOTA	1646		GLU A		18.0		17.431			0 30.39	
ATOM	1647		GLU A		18.5		18.385			0 29.63	
MOTA	1648		GLU A		17.7		18.316			00 29.03	
ATOM	1649	CD			17.9		19.547		_	00 30.31	-
MOTA	1650	OE:	1 GLU A	207	19.1	108	19.991	1 55 .971		,, ,,,,,	

ATOM	1651	OE2	GLU A	207	16.947	20.070	55.604	1.00 3	0.76	AAAA
ATOM	1652	C	GLU A		18.879	17.433	60.537	1.00 3		AAAA
ATOM	1653	Ö	GLU A		19.472	18.448	60.910	1.00 3		AAAA
ATOM	1654	N	ILE A		18.935	16.272	61.178	1.00 3		AAAA
	1655	CA	ILE A		19.674	16.111	62.408	1.00 3		AAAA
ATOM			ILE A		18.709	15.647	63.519	1.00 3		AAAA
MOTA	1656	CB			19.443	15.380	64.806	1.00 3		AAAA
ATOM	1657		ILE A			16.742	63.757	1.00 3		AAAA
MOTA	1658		ILE A		17.673			1.00 3		AAAA
ATOM	1659		ILE A	•	16.628	16.386	64.794			
ATOM	1660	C	ILE A		20.863	15.174	62.280	1.00 3		AAAA
ATOM	1661	0	ILE A		21.506	14.829	63.265			AAAA
MOTA	1662	N	GLY A		21.177	14.768	61.062	1.00 3		AAAA
MOTA	1663	CA	GLY A		22.321	13.903	60.913	1.00 3		AAAA
ATOM	1664	С	GLY A		22.164	12.671	60.057	1.00 3		AAAA
ATOM	1665	0	GLY A		21.148	12.461	59.400	1.00 3		AAAA
MOTA	1666	N	GLU A		23.199	11.836	60.100	1.00 3		AAAA
MOTA	1667	CA	GLU A		23.256	10.621	59.315	1.00 3		AAAA
MOTA	1668	CB	GLU A		23.600	11.013	57.892	1.00 3		AAAA
MOTA	1669	CG	GLU A		23.469	9.960	56.858	1.00 3		AAAA
ATOM	1670	CD		210 -	24.118	10.412	55.580	1.00 4		AAAA
ATOM	1671		GLU A		25.365	10.437	55.555	1.00 4		AAAA
MOTA	1672	OE2	GLU A		23.396	10.767	54.619	1.00 4		AAAA
ATOM	1673	С	GLU A	210	24.377	9.770	59.894	1.00 3		AAAA
MOTA	1674	0	GLU A	210	25.498	10.244	60.041	1.00 3		AAAA
ATOM	1675	N	GLY A	211	24.085	8.517	60.220	1.00 3		AAAA
MOTA	1676	CA	GLY A	211	25.116	7.654	60.770	1.00 3		AAAA
MOTA	1677	C	GLY A	211	25.542	8.075	62.164	1.00 3	8.26	AAAA
MOTA	1678	0	GLY A		24.697	8.443	52.977	1.00 3		AAAA
ATOM	1679	N	LYS A	212	26.848	8.030	62.434	1.00 3		AAAA
ATOM	1680	CA	LYS A	212	27.396	8.399	63.743	1.00 3		AAAA
ATOM	1681	CB	LYS A		28.921	8.209	63.766	1.00 3	8.86	AAAA
MOTA	1682	CG	LYS A	212	29.416	6.810	63.385	1.00 4		AAAA
ATOM	1683	CD	LYS A	212	29.001	5.746	64.405	1.00 4	2.04	AAAA
MOTA	1684	CE	LYS A	212	29.251	4.318	63.891	1.00 4	2.80	AAAA
ATOM	1685	NZ	LYS A	212	30.673	4.002	63.562	1.00 4		AAAA
ATOM	1686	С	LYS A	212	27.093	9.859	64.054	1.00 3	7.08	AAAA
ATOM	1687	0	LYS A	212	27.075	10.269	65.218	1.00 3		AAAA
ATOM	1688	N	GLY A	213	26.854	10.636	63.002	1.00 3	5.41	AAAA
ATOM	1689	CA	GLY A	213	26.592	12.054	63.170	1.00 3		AAAA
ATOM	1690	С	GLY A	213	25.163	12.438	63.470	1.00 3		AAAA
ATOM	1691	0	GLY A	213	24.861	13.611	63.666	1.00 3		AAAA
ATOM	1692	N	LYS A	214	24.280	11.451	63.512	1.00 3	11.79	AAAA
ATOM	1693	CA	LYS A	214	22.883	11.710	63.794	1.00 3	10.47	AAAA
ATOM	1694	CB	LYS A	214	22.111	10.396	63.737	1.00 3	30.35	AAAA
ATOM	1695	CG	LYS A	214	20.676	10.552	63.280	1.00 3	30.45	AAAA
MOTA	1696	CD	LYS A	214	20.141	9.241	62.759	1.00 2		AAAA
ATOM	1697	CE	LYS A	214	18.737	9.400	62.229	1.00 3		AAAA
ATOM	1698	NZ	LYS A		18.179	8.138	61.671	1.00 3		AAAA
ATOM	1699	С	LYS A		22.778	12.374	65.168	1.00 3	30.31	AAAA
ATOM	1700	0	LYS A	214	23.193	11.814	66.177	1.00 3		AAAA
ATOM	1701	N	GLY A	215	22.243	13.590	65.192			AAAA
ATOM	1702	CA	GLY A		22.128	14.325	66.437	1.00 2	29.16	AAAA
ATOM	1703	С	GLY A	215	23.222	15.379	66.582	1.00 2		AAAA
MOTA	1704	Ó	GLY A		23.306	16.061	67.602	1.00 2		AAAA
ATOM	1705	N	TYR A		24.063	15.521	65.561	1.00 2	27.35	AAAA
ATOM	1706	CA	TYR A		25.150	16.497	65.616	1.00 2		AAAA
ATOM	1707	CB	TYR A		26.516	15.800	65.531	1.00 2		AAAA
ATOM	1708	CG	TYR A		26.786	14.966	66.757	1.00 3	30.21	AAAA
ATOM	1709		TYR A		26.138	13.735	66.955	1.00 2		AAAA
ATOM	1710		TYR A		26.311	13.014	68.138	1.00		AAAA
ATOM	1711		TYR A		27.619	15.450	67.774	1.00 2		AAAA
ATOM	1712		TYR A		27.798	14.741	68.957	1.00 2		AAAA
ATOM	1713	CZ	TYR A		27.143	13.528	69.138	1.00		AAAA
ATOM	1713	OH	TYR A		27.297	12.859	70.332	1.00		AAAA
	1715	C	TYR A		25.055	17.599	64.581	1.00		AAAA
ATOM	1716	0	TYR A		26.046	18.240	64.243	1.00		AAAA
ATCM	1110	•	TIN W	~						

ATOM	1717	N	ASN A 217	23.845	17.791	64.076	1.00 23.55	AAAA
			ASN A 217	23.549	18.830	63.119	1.00 21.52	AAAA
MOTA	1718			23.431	18.282	61.699	1.00 20.64	AAAA
ATOM	1719		ASN A 217		19.386	60.669	1.00 20.29	AAAA
MOTA	1720		ASN A 217	23.202		-	1.00 18.03	AAAA
MOTA	1721	OD1	ASN A 217	22.089	19.888	60.499		
MOTA	1722	ND2	ASN A 217	24.274	19.790	60.004	1.00 19.95	AAAA
	1723	C	ASN A 217	22.216	19.346	63.605	1.00 21.64	AAAA
MOTA			ASN A 217	21.263	18.576	63.757	1.00 20.34	AAAA
MOTA	1724			22.165	20.647	63.873	1.00 22.22	AAAA
MOTA	1725		LEU A 218				1.00 22.03	AAAA
ATOM	1726	CA	LEU A 218	20.960	21.282	64.388		
ATOM	1727	CB	LEU A 218	21.195	21.711	65.840	1.00 20.97	AAAA
	1728		LEU A 218	20.051	21.838	66.841	1.00 20.94	AAAA
MOTA			LEU A 218	20.513	22.744	67.936	1.00 20.31	AAAA
MOTA	1729			18.818	22.412	66.227	1.00 21.27	AAAA
MOTA	1730		LEU A 218	20.669	22.513	63.547	1.00 22.70	AAAA
ATOM	1731	C	LEU A 218				1.00 22.64	AAAA
MOTA	1732	0	LEU A 218	21.451	23.454	63.557		AAAA
ATOM	1733	N	ASN A 219	19.564	22.491	62.808	1.00 24.00	
ATOM	1734	CA	ASN A 219	19.166	23.626	61.990	1.00 25.33	AAAA
	_	СВ	ASN A 219	18.656	23.190	60.614	1.00 26.94	AAAA
MOTA	1735		ASN A 219	19.737	22.601	59.749	1.00 26.68	AAAA
MOTA	1736	CG			23.169	59.626	1.00 28.06	AAAA
ATOM	1737		ASN A 219	20.812		* ·	1.00 26.26	AAAA
MOTA	1738	ND2	ASN A 219	19.446	21.471	59.117	1.00 20.20	
ATOM	1739	С	ASN A 219	18.046	24.345	62.710	1.00 25.69	AAAA
	1740	ō	ASN A 219	17.118	23.706	63.210	1.00 27.51	AAAA
ATOM			ILE A 220	18.122	25.667	62.753	1.00 25.05	AAAA
MOTA	1741	N	ILE A 220	17.107	26.457	63.428	1.00 25.87	AAAA
MOTA	1742	CA	1LE A 220		27.331		1.00 25.04	AAAA
MOTA	1743	CB	ILE A 220	17.733		65.227	1.00 25.24	AAAA
ATOM	1744	CG2	ILE A 220	16.654	28.152		1.00 24.07	AAAA
ATOM	1745	CG1	ILE A 220	18.460	26.447	65.584		
ATOM	1746	CD1	ILE A 220	17.557	25.502	66.378	1.00 22.28	AAAA
	1747	c	ILE A 220	16.430	27.370	62.414	1.00 26.20	AAAA
MOTA			ILE A 220	16.801	28.534	62.265	1.00 25.35	AAAA
MOTA	1748	0	10E A 220	15.421	26.850	61.704	1.00 26.70	AAAA
MOTA	1749	N	PRO A 221		25.501	61.778	1.00 27.17	AAAA
ATOM	1750	CD	PRO A 221	14.840			1.00 27.67	AAAA
ATOM	1751	CA	PRO A 221	14.706	27.640	60.703	1.00 26.81	AAAA
ATOM	1752	CB	PRO A 221	13.771	26.613	60.064	1.00 20.01	AAAA
ATOM	1753	CG	PRO A 221	14.473	25.293	60.346	1.00 27.36	
	1754	c	PRO A 221	13.944	28.763	61.390	1.00 28.61	AAAA
ATOM			PRO A 221	13.218	28.515	62.363	1.00 29.91	AAAA
MOTA	1755	0	LEU A 222	14.100	29.990	60.900	1.00 28.15	AAAA
MOTA	1756	N		13.408	31.117	61.511	1.00 28.48	AAAA
MOTA	1757	CA	LEU A 222			62.191	1.00 28.69	AAAA
MOTA	1758	CB	LEU A 222	14.431			1.00 28.67	AAAA
MOTA	1759	CG	LEU A 222	15.187	31.394	63.371	1.00 20.07	
MOTA	1760	CDI	LEU A 222	16.304	32.300	63.837	1.00 28.62	AAAA
	1761	CD3	LEU A 222	14.231	31.106	64.527	1.00 27.65	AAAA
ATOM				. 12 26	31.882	60.518	1.00 28.44	AAAA
MOTA	1762	C	LEU A 222	12.318	31.958	59.325	1.00 27.90	AAAA
ATOM	1763	0	LEU A 222	1113	32.441	61.009	1.00 28.79	AAAA
ATOM	1764	N	PRO A 223			62.410	1.00 29.20	AAAA
MOTA	1765	CD	PRO A 223	10.966	32.357		1.00 29.36	AAAA
ATOM	1766	CA	PRO A 223	10.437	33.202	60.227		
ATOM	1767	CB	PRO A 223	9.256	33.287	51.183	1.00 28.98	AAAA
	1768	CG	PRO A 223	9.965	33.502	62.485	1.00 28.68	AAAA
ATOM			PRO A 223	10.890	34.585	59.753	1.00 30.15	AAAA
MOTA	1769	C	PRO A 223	11.864	35.152	60.253	1.00 30.18	AAAA
MOTA	1770	· O	PRO A 223		35.112		1.00 30.50	AAAA
MOTA	1771	N	LYS A 224	10.150			1.00 29.92	AAAA
MOTA	1772	CA	LYS A 224	10.398	36.422			AAAA
ATOM	1773	CB	LYS A 224	9.491	36.661			
	1774	CG	LYS A 224	9.588	35.676	55.893		AAAA
MOTA	_		LYS A 224	8.640			1.00 30.91	AAAA
MOTA	1775	CD		8.575				AAAA
MOTA	1776	CE	LYS A 224					AAAA
ATOM	1777	NZ	LYS A 224	7.628				AAAA
ATOM	1778	С	LYS A 224	10.050		_		AAAA
	1779	0	LYS A 224	9.308		60.196		
ATOM	1780		GLY A 225	10.555	38.678	59.079	1.00 29.39	AAAA
ATOM			GLY A 225	10.261		60.031	1.00 29.87	
MOTA	1781		OUL A 443	10.809				AAAA
MOTA	1782	С	GLY A 225	10.603	22.337		_	•

ATOM	1783	0	GLY	Α	225	10.371	40.051	62.392	1.00 29.85	AAAA
ATOM	1784	N	LEU	A	226	11.775	38.536	61.499	1.00 29.50	AAAA
MOTA	1785	CA	LEU	A	226	12.374	38.175	62.778	1.00 29.80	AAAA
ATOM	1786	CB	LEU	Α	226	13.513		62.570	1.00 28.81	AAAA
ATOM	1787	CG			226	14.097	36.514	63.820	1.00 27.29	AAAA
ATOM	1788				226	13.132	35.452	64.275	1.00 26.06	AAAA
ATOM	1789				226	15.455	35.888	63.538	1.00 27.03	
ATOM	1790	C			226	12.936	39.428	63.448		AAAA
ATOM	1791	Ö			226				1.00 30.68	AAAA
	1792	N			227	13.636	40:217	62.804	1.00 30.57	AAAA
MOTA	1793	CA				12.624	39.617	64.729	1.00 31.46	AAAA
MOTA					227	13.139	40.769	65.469	1.00 32.06	AAAA
MOTA	1794	CB			227	12.012	41.507	66.217	1.00 31.74	AAAA
ATOM	1795	CG			227	11.291	40.630	67.234	1.00 32.07	AAAA
MOTA	1796				227	11.914	40.017	68.104	1.00 31.61	AAAA
MOTA	1797				227	9.962	40.592	67.141	1.00 31.59	AAAA
MOTA	1798	C			227	14.225	40.334	66.444~		AAAA
ATOM	1799	0			227	14.413	39.140	66.688	1.00 32.78	AAAA
MOTA	1800	N			228	14.943	41.297	67.002	1.00 33.32	AAAA
ATOM	1801	CA			228	16.017	40.976	67.928	1.00 34.75	AAAA
MOTA	1802	CB			228	16.508	42.233		1.00 36.77	AAAA
MOTA	1803	CG			228	17.154	43.238	67. 7 14	1.00 37.28	AAAA
ATOM	1804		ASP			17.662	42.816	66.652	1.00 37.78	AAAA
ATOM	1805	OD2			228	17.180	44.443	68.054	1.00 37.21	AAAA
ATOM	1806	С			228	15.707	39.892	68.964	1.00 34.93	AAAA
ATOM	1807	0			228	16.448	38.919	69.056	1.00 36.92	AAAA
ATOM	1808	N			229	14.635	40.054	69.741	1.00 33.90	AAAA
MOTA	1809	CA	ASN	Α	229	14.268	39.079	70.775	1.00 33.01	AAAA
MOTA	1810	CB			229	12.965	39.481	71.455	1.00 33.79	AAAA
ATOM	1811	CG	ASN	Α	229	13.131	40.663	72.369	1.00 34.04	AAAA
ATOM -	1812	OD1	ASN	Α	229	13.783	40.564	73.405	1.00 34.25	AAAA
ATOM	1813	ND2	ASN	Α	229	12.550	41.797	71.988	1.00 34.05	AAAA
MOTA	1814	С	ASN	Α	229	14.114	37.656	70.276	1.00 32.98	AAAA
ATOM	1815	0	ASN	Α	229	14.529	36.697	70.944	1.00 32.77	AAAA
ATOM	1816	N .	GLU	Α	230	13.496	37.523	69.108	1.00 32.02	AAAA
ATOM	1817	CA	GLU	Α	230	13.277	36.227	68.516	1.00 30.72	AAAA
ATOM	1818	CB	GLU	Α	230	12.399	36.375	67.272	1.00 31.38	AAAA
ATOM	1819	CG	GLU	Α	230	11.006	36.896	67.583	1.00 31.02	AAAA
MOTA	1820	CD	GLU	Α	230	10.175	37.187	66.350	1.00 31.52	AAAA
ATOM	1821	OE1	GLU	Α	230	10.644	37.970	65.497	1.00 31.89	AAAA
ATOM	1822	OE2	GLU	Α	230	9.047	36.655	66.241	1.00 31.04	AAAA
ATOM	1823	С	GĻŪ	A	230	14.628	35.622	68.180	1.00 30.79	AAAA
MOTA	1824	o	GLU	Α	230	14.905	34.465	68.512	1.00 31.05	AAAA
ATOM	1825	N	PHE	Α	231	15.490	36.412	67.553	1.00 30.05	AAAA
MOTA	1826	CA	PHE	Α	231	16.811	35.920	67.191	1.00 28.94	AAAA
ATOM	1827	CB	PHE	Α	231	17.632	37.015	66.528	1.00 29.33	AAAA
ATOM	1828	CĠ	PHE	Α	231	18.949	36.537	65.972	1.00 28.79	AAAA
ATOM	1829	CD1	PHE	A	231	18.982	35.585	64.957	1.00 28.93	AAAA
MOTA	1830	CD2	PHE	A	231	20.152	37.067	66.436	1.00 28.55	AAAA
MOTA	1831		PHE			20.195	35.160		1.00 28.32	AAAA
MOTA	1832	CE2	PHE	Α	231	21.376	36.657	65.888	1.00 28.97	AAAA
ATOM	1833	CZ	PHE	Α	231	21.397			1.00 28.81	AAAA
MOTA	1834	С	PHE			17.559		68.413	1.00 28.25	AAAA
MOTA	1835	0	PHE	A	231	17.999		68.485	1.00 27.97	AAAA
ATOM	1836	N	LEU			17.691		69.384	1.00 27.93	AAAA
ATOM	1837	CA	LEU			18.425		70.590	1.00 27.93	AAAA
ATOM	1838		LEU			18.521		71.484	1.00 28.16	AAAA
ATOM	1839	CG	LEU			19.220		70.747	1.00 27.96	AAAA
ATOM	1840		LEU			19.203	39.629	71.587	1.00 27.57	AAAA
ATOM	1841		LEU			20.639		70.387	1.00 27.76	AAAA
ATOM	1842	c	LEU			17.815	34.851	71.340	1.00 27.70	AAAA
ATOM	1843	0	LEU				34.061	71.941	1.00 27.92	AAAA
ATOM	1844	N	PHE			16.495		71.298	1.00 27.92	AAAA
ATOM	1845		PHE				33.685	71.972	1.00 20.81	AAAA
ATOM	1846	CB	PHE			14.278		71.745	1.00 30.27	AAAA
ATOM	1847	CG	PHE			13.465		72.308	1.00 32.38	AAAA
ATOM	1948		PHE			13.257	32.710	73.677	1.00 32.38	AAAA
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3 COM	1849	CD2	PHE A 2	233	12.928	31.741	71.467	1.00 33.51	AAAA
ATOM			PHE A 2		12.518	31.537	74.201	1.00 35.10	AAAA
MOTA	1850					30.677	71.975	1.00 34.21	AAAA
ATOM	1851		PHE A 2		12.193				AAAA
ATOM	1852	CZ	PHE A 2	233	11.986	30.572	73.344	1.00 35.23	
	1853		PHE A 2	233	16.219	32.301	71.483	1.00 30.55	AAAA
MOTA			PHE A 2		16.438	31.391	72.280	1.00 30.65	AAAA
ATOM -	1854						70.165	1.00 30.21	AAAA
ATOM	1855		ALA A 2		16.317	32.151			
ATOM	1856	CA	ALA A 2	234	16.698	30.892	69.549	1.00 28.97	AAAA
	1857		ALA A 2		16.398	30.942	68.065	1.00 30.40	AAAA
MOTA		C 23	ALA A	224	18.169	30.571	69.761	1.00 28.27	AAAA
ATOM	1858		ALA A				69.830	1.00 26.69	AAAA
ATOM	1859		ALA A 2		18.564	29.401			
ATOM	1860	N	LEU A 2	235	18.978	31.614	69.855	1.00 27.56	AAAA
	1861		LEU A		20.402	31.427	70.055-	1.00 29.17	AAAA
MOTA			LEU A		21.126	32.767	69.989	1.00 29.04	AAAA
MOTA	1862					32.757	69.378	1.00 28.54	AAAA
ATOM	1863		LEU A		22.527				- AAAA
ATOM	1864	CD1	LEU A	235	23.350	33.83 7	70.058	1.00 27.05	
ATOM	1865		LEU A		23.182	31.408	69.558	1.00 27.21	AAAA
			LEU A		20.637	30.799	71.429	1.00 30.99	AAAA
ATOM	1866	С			21.159	29.697	71.547	1.00 31.65	AAAA ·
MOTA	1867	0	LEU A					1.00 31.88	AAAA
ATOM	1868	N	GLU A	236	20.242	31.514	72.471		
ATOM	1869	CA	GLU A	236	20.409	31.042	73.838	1.00 32.99	AAAA
		CB	GLU A		19.689	31.990	74.790	1.00 34.63	AAAA
MOTA	1870				19.980	33.449	74.531	1.00 36.79	AAAA
MOTA	1871	CG	GLU A					1.00 38.99	AAAA
MOTA	1872	CD	GLU A		19.044	34.360	75.294		
ATOM	1873	CE1	GLU A	236	17.803	34.303	75.070	1.00 39.03	AAAA
	1874	OF2	GLU A	236	19.559	35.132	76.126	1.00 41.56	AAAA
ATOM			GLU A		19.806	29.656	73.982	1.00 32.94	AAAA
MOTA	1875	С				28.753	74.595	1.00 31.76	AAAA
ATOM	1876	0	GLU A		20.379			1.00 32.83	AAAA
ATOM	1877	N	LYS A	237	18.631	29.503	73.399		
ATOM	1878	CA	LYS A	237	17.906	28.256	73.471	1.00 33.59	AAAA
	1879	CB	LYS A		16.504	28.506	72.942	1.00 35.00	AAAA
MOTA	_				15.516	27.436	73.213	1.00 36.69	AAAA
MOTA	1880	CG	LYS A				73.940	1.00 38.53	AAAA
MOTA	1881	CD	LYS A		14.310	28.008			AAAA
ATOM	1882	CE	LYS A	237	14.636	28.331	75.392	1.00 39.27	
ATOM	1883	NZ	LYS A		13.398	28.531	76.204	1.00 39.42	AAAA
			LYS A		18.619	27.129	72.707	1.00 33.14	AAAA
MOTA	1884	C			18.850	26.051	73.260	1.00 33.29	AAAA
MOTA	1885	0	LYS A					1.00 32.13	AAAA
MOTA	1886	N	SER A		18.985	27.374	71.452		AAAA
ATOM	1887	CA	SER A	238	19.671	26.345	70.685	1.00 31.25	
	1888	CB	SER A		19.740	26.717	69.194	1.00 30.52	AAAA
MOTA			SER A	238	20.544	27.851	68.970	1.00 29.95	AAAA
MOTA	1889	OG.			21.075	26.064	71.236	1.00 31.21	AAAA
MOTA	1890	С	SER A				71.169	1.00 30.06	AAAA
ATOM	1891	. 0	SER A		21.556	24.929			AAAA
MOTA	1892	Ŋ	LEU A	239	21.740	27.077	71.782	1.00 31.71	
	1893	CA	LEU A		23.070	26.842	72.351	1.00 33.47	AAAA
MOTA			LEU A		23.698	28.130	72.900	1.00 31.25	AAAA
MOTA	1894				23.988	29.300	71.977	1.00 29.80	AAAA
MOTA	1895	CG	LEU A	239				1.00 29.05	AAAA
MOTA	1896	CD1	LEU A	239	24.589	30.414	72.787	1.00 25.05	AAAA
ATOM	1897	CD2	LEU A	239	24.919	28.903		1.00 29.36	
	1898	c	LEU A	239	22.933	25.839	73.502	1.00 35.41	AAAA
ATOM					23.812			1.00 36.25	AAAA
MOTA	1899	0	LEU A					1.00 37.34	AAAA
MOTA	1900	N	GLU A		21.816				AAAA
ATOM	1901	CA	GLU A	240	21.594				
	1902	СВ	GLU A		20.281	25.361	76.017	1.00 41.90	AAAA
ATOM			GLU A		20.040			1.00 45.52	AAAA
MOTA	1903	CG							AAAA
ATOM	1904	CD	GLU A		19.665				AAAA
ATOM	1905	OE1	GLU A	240	18.670				
	1906		GLU A		20.364	25.559	79.469		AAAA
MOTA		C	GLU A		21.583			1.00 38.80	AAAA
ATOM	1907				22.224				AAAA
MOTA	1908	၁	GLU A						AAAA
MOTA	1909	24	ILE A		20.847				AAAA
ATCM	1910	CA	ILE A		20.751				
		CB	ILE A		19.912			1.00 41.10	АААА
ATOM	1911				19.850				AAAA
ATOM	1912		ILE A						AAAA
MOTA	1913		ILE.A		18.502				AAAA
MOTA	1914	CDI	ILE A	241	17.641	. 22.745	70.992	3 1.00 41.14	
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ATOM	1915	С	ILE	2	241	22.159	21.424	72.893	1.00 41.66	AAAA
	1916	ō	ILE			22.445	20.229	73.045	1.00 42.10	
ATOM								72.432	1.00 41.42	
MOTA	1917	N	VAL			23.026	22.324			
ATOM	1918	CA	VAL			24.394	21.977	72.076	1.00 41.23	
MOTA	1919	CB	VAL	Α	242	25.089	23.146	71.351	1.00 40.40	AAAA
ATOM	1920	CG1	VAL	À	242	26.556	22.850	71.171	1.00 39.25	AAAA
	1921		VAL			24.438	23.384	70.004	1.00 39.79	
MOTA										
MOTA	1922	С	VAL			25.228	21.604	73.298	1.00 42.67	
MOTA	1923	0	VAL	À	242	25.882	20.562	73.316	1.00 41.83	
MOTA	1924	N	LYS	Α	243	25.198	22.456	74.318	1.00 44.43	. AAAA
ATOM	1925	CA	LYS	A	243	25.972	22.215	75.523	1.00 46.51	AAAA
	1926	СВ	LYS			25.797	23.363	76.522	1.00 47.29	
ATOM									1.00 48.40	
MOTA	1927	CG	LYS			26.820	23.312	77.564		
MOTA	1928	CD	LYS	À	243	26.479	24.248	78.823	1.00 48.88	
ATOM	1929	CE	LYS	Α	243	26.355	25.691	78.380	1.00 49.62	AAAA .
ATOM	1930	NZ	LYS	A	243	25.926	26.576	79.505	1.00 50.13	L AAAA
ATOM	1931	c	LYS			25.639	20.891	76.209	1.00 47.59	AAAA (
						26.537	20.216	76.711	1.00 48.1	
ATOM	1932	0	LYS							
ATOM	1933	N			244	24.362	20.517	76.237	1.00 48.8	
MOTA	1934	CA	GLU	À	244	23.957	19.262	76.877	1.00 50.82	
MOTA	1935	CB	GLU	Α	244	22.432	19.208	77.103	1.00 52.0	AAAA E
ATOM	1936	CG	GLU			21.818	20.405	77.829	1.00 53.83	2 AAAA
			GLU			20.359	20.174	78.230	1.00 54.49	
ATOM	1937	CD								
MOTA	1938		GLU			19.666	21.158	78.595	1.00 55.1	
ATOM	1939	OE2	GLU	À	244	19.912	19.006	78.200	1.00 54.9	
ATOM	1940	С	GLU	Α	244	24.338	18.046	76.033	1.00 51.0	s aaaa
ATOM	1941	0	GLU	А	244	24.206	16.905	76.477	1.00 51.6	AAAA 8
MOTA	1942	N	VAL			24.810	18.292	74.820	1.00 51.13	
	1943	CA	VAL			25.149	17.212	73.904	1.00 50.0	
ATOM									1.00 50.2	
ATOM	1944	CB	VAL			24.217	17.263	72.677		
ATOM	1945		VAL			24.615	16.217	71.651	1.00 51.0	
ATOM	1946	CG2	VAL	A	245	22.794	17.049	73.118	1.00 50.7	9 AAAA
ATOM	1947	С	VAL	A	245	26.578	17.254	73.397	1.00 49.4	3 AAAA
ATOM	1948	Ō	VAL			27.101	16.250	72.917	1.00 48.6	5 AAAA
	1949	N	PHE			27.220	18.408	73.522	1.00 48.6	
MOTA								72.982	1.00 47.9	
ATOM	1950	CA			246	28.556	18.552			
ATOM	1951	CB			246	28.420	19.212	71.607	1.00 46.4	
MOTA	1952	CG	PHE	Ã	246	29.553	18.932	70.671	1.00 45.3	
ATOM	1953	CD1	PHE	A	246	29.841	17.629	70.280	1.00 44.1	3 AAAA
ATOM	1954	CD2	PHE	Ä	246	30.291	19.972	70.124	1:00 44.4	AAAA 0
ATOM	1955		PHE			30.840	17.370	69.356	1.00 43.9	5 AAAA
			PHE			31.292	19.721	69.197	1.00 43.4	
ATOM	1956									
MOTA	1957	CZ	PHE			31.566	18.422	68.811	1.00 44.0	
MOTA	1958	С	PHE	Α	246	29.481	19.383	73.860	1.00 48.6	
MOTA	1959	0	PHE	Α	246	29.132	20.501	74.239	1.00 49.5	
ATOM	1960	N	GLU	A	247	30.647	18.834	74.198	1.00 48.6	9 AAAA
ATOM.	1961	CA	GLU			31.644	19.578	74.977	1.00 49.4	5 AAAA
			GLU			32.174	18.768	76.178	1.00 51.9	
MOTA	1962	CB						77.398	1.00 54.3	
MOTA	1963	CG	GLU			31.257	18.659			
MOTA	1964	CD	GLU			29.986	17.845	77.146	1.00 57.3	
ATOM	1965	OE1	GLU	Α	247	29.100	18.315	76.393 [.]	1.00 58.4	
MOTA	1966	OE2	GLU	A	247	29.877	16.725	77.702	1.00 57.9	5 AAAA
ATOM	1967	C	GLU			32.807	19.903	74.024	1.00 47.3	
	1968		GLU			33.742	19.119	73.872	1.00 46.6	
MOTA		0							1.00 46.2	
MOTA	1969	Ŋ			248	32.748	21.070	73.371		
MOTA	1970	CD	PRO	Α	248	31.651	22.033	73.543	1.00 46.4	
ATOM	1971	CA	PRO	Α	248	33.710	21.614	72.411	1.00 45.4	
ATOM	1972	CB	PRO	A	248	33.063	22.948	72.017	1.00 45.5	7 AAAA
	1973	CG	PRO			31.604	22.661	72.178	1.00 46.2	
ATOM								72.880	1.00 44.2	
MOTA	1974	C			248	35.155	21.814			
MOTA	1975	0			248	35.401	22.370	73.947	1.00 44.5	
ATOM	1976	N	GLU	A	249	36.100	21.364	72.059	1.00 42.2	
ATOM	1977	CA	GLU	A	249	37.522	21.526	72.340	1.00 39.8	
ATOM	1978	CB			249	38.344	20.460	71.625	1.00 39.5	AAAA 8
	1979	CG			249	37.960	19.030	71.957	1.00 41.3	
ATOM								71.241	1.00 40.9	
ATOM	1980	CD	GLU	A	447	38.825	18.007	11.241	1.00 40.3	U AAAA
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MOTA	1981	OE1	GLU A	A	249	38.871	18.017	69.996	1.00 41.55	AAAA
			GLU A			39.462	17.187	71.926	1.00 42.49	AAAA
MOTA	1982								1.00 38.81	AAAA
MOTA	1983	С	GLU A	A	249	37.840	22.873	71.718		
ATOM	1984	0	GLU A	Α	249	38.715	23.617	72.181	1.00 38.27	AAAA
		-				37.109	23.160	70.644	1.00 36.60	AAAA
ATOM	1985	N	VAL A							
ATOM	1986	CA	VAL A	A	250	37.242	24.402	69.890	1.00 34.20	AAAA
			VAL			38.379	24.321	68.862	1.00 33.73	AAAA
Mora	1987	CB								AAAA
ATOM	1988	CG1	VAL A	A	250	38.085	23.209	67.864	1.00 33.26	
	1989	CG2	VAL A	Δ	250	38.546	25.678	68.153	1.00 33.75	AAAA
ATOM							24.617	69.130	1.00 31.98	AAAA
ATOM	1990	C,	VAL A	A	250	35.945				
MOTA	1991	0	VAL :	Α	250	35.205	23.658	68.904	1.00 32.36	AAAA
						35.657	25.863	68.760	1.00 28.65	AAAA
ATOM	1992	N	TYR .							
ATOM	1993	CA	TYR .	Α	251	34.449	26.150	67.991	1.00 26.49	AAAA
			TYR .			33.241	26.442	68.906	1.00 24.32	AAAA
MOTA	1994	CB							1.00 22.96	AAAA
ATOM	1995	CG	TYR .	Α	251	33.193	27.853	69.465		
ATOM	1996	CD1	TYR .	Α	251	32.771	28.931	68.668	1.00 22.21	AAAA
						32.791	30.234	69.151	1.00 21.29	AAAA
ATOM	1997		TYR .							
MOTA	1998	CD2	TYR .	Α	251	33.628	28.124	70.771	1.00 21.47	AAAA
		CE2	TYR .			33.651	29.425	71.265	1.00 20.80	AAAA
MOTA	1999							70.449	1.00 20.77	AAAA
MOTA	2000	cz	TYR .			33.237	30.475			
ATOM	2001	OH	TYR'	Α	251	33.309	31.768	70.913	1.00 21.41	AAAA
						34.691	27.345	67.092	1.00 24.59	AAAA
atom	2002	С	TYR						1.00 25.87	AAAA
MOTA	2003	0	TYR	Α	251	35.504	28.216	67.410		
	2004	N	LEU			33.984	27.374	65.970	1.00 22.49	AAAA
ATOM								65.045	1.00 20.96	AAAA
ATOM	2005	CA	LEU	A	252	34.082	28.482			
ATOM	2006	CB	LEU	Α	252	34.523	28.018	63.657	1.00 21.31	AAAA
					252	35.940	27.472	63.556	1.00 21.03	AAAA
ATOM	2007	CG	_		•					AAAA
MOTA	2008	CD1	LEU	Α	252	35.947	26.028	63.9 7 7	1.00 22.16	
	2009	CD2	LEU	Δ	252	36.440	27.594	62.143	1.00 22.13	AAAA
ATOM						32.731	29.159	64.959	1.00 19.60	AAAA
ATOM	2010	С	LEU							
ATOM	2011	0	LEU	Α	252	31.689	28.523	65.070	1.00 19.95	AAAA
			LEU	A	253	32.748	30.461	64.756	1.00 17.95	AAAA
MOTA	2012	N						64.675	1.00 17.33	AAAA
ATOM	2013	CA	LEU	А	253	31.521	31.222			
ATOM	2014	CB	LEU	Α	253	31.441	32.142	65.900	1.00 16.31	AAAA
			LEU			30.266	33.070	66.153	1.00 15.81	AAAA
ATOM	2015	CG								AAAA
ATOM	2016	CD1	LEU	Α	253	28.990	32.267	66.377	1.00 14.74	
ATOM	2017	CD2	LEU	Α	253	30.602	33.925	67.368	1.00 15.83	AAAA
						31.564	32.035	63.386	1.00 16.60	AAAA
ATOM	2018	С	LEU	A	200					AAAA
ATOM	2019	0	LEU	Α	253	32.548	32.722	63.132	1.00 16.40	
	2020	N	GLN	Δ	254	30.526	31.936	62.557	1.00 15.88	AAAA
ATOM						30.507	32.716	61.328	1.00 16.27	AAAA
ATOM	2021	CA	GLN							AAAA
MOTA	2022	CB	GLN	Α	254	30.045	31.881	60.121	1.00 15.88	
	2023	CG			254	28.587	32.048	59.734	1.00 18.52	AAAA
ATOM								58.519	1.00 17.54	AAAA
MOTA	2024	CD	GLN			28.380	32.935			
ATOM	2025	OF1	GLN	A	254	28.714	32.572	57.391	1.00 15.89	AAAA
		742	CLM	ħ	254	27 828	34.103	58.750	1 00 18.49	AAAA
MOTA	2026		GLN	^	274			61.650	1 00 16.91	AAAA
MOTA	2027	С	GLN	Α	254	29.527	33.825			
	2028	0			254	28.450	33.571	62.198	1 00 17.41	AAAA
ATOM						29.911	35.053	61.319	1.00 16.68	AAAA
MOTA	2029	N			255				1.00 16.42	AAAA
ATOM	2030	CA	LEU	Α	255	29.102	36.215	61.619		
		CB	LEU			29.861	37.080	62.616 [.]	1.00 14.93	AAAA
ATOM	2031						36.301	63.860	1.00 13.90	AAAA
MOTA	2032	CG			255	30.269				
MOTA	2033	CD1	LEU	Α	255	31.494	36.924	64.515	1.00 12.24	AAAA
			LEU			29.083	36.202	64.774	1.00 12.80	AAAA
MOTA	2034		LEU	~	233 .				1.00 18.32	AAAA
ATOM	2035	С			255	28.699	37.048	60.404		
	2036	ō			255	29.170	38.177	60.216	1.00 17.59	AAAA
MOTA	_							59.588	1.00 19.75	AAAA
MOTA	2037	N			256	27.813	36.482			AAAA
ATOM	2038	CA	GLY	Α	256	27.322	37.188	58.422	1.00 20.77	
						26.422	38.302	58.927	1.00 21.73	AAAA
MOTA	2039	С			256				1.00 21.38	AAAA
MOTA	2040	0			256	25.642	30.096	59.857		
	2041	Ŋ			257	26.528	39.485	58.325	1.00 22.82	AAAA
ATOM						25.721	40.622	58.746	1.00 23.85	AAAA
ATOM	2042	CA			257					AAAA
ATOM	2043	CB	THR	Α	257	26.460	41.968	58.549	1.00 23.99	
	2044		THR			26.729	42.169	57.153	1.00 25.54	AAAA
ATOM								59.329	1.00 24.07	AAAA
ATOM	2045	CG2			257	27.780				AAAA
ATOM	2046	С	THR	Α	257	24.438	40.691	57.948	1.00 24.97	WWW
	2010	-			-			-		•

ATOM	2047	0	THR	A	257	23.692	41.672	58.048	1.00 25.84	AAAA
ATOM	2048	N	ASP			24.152	39.665	57.154	1.00 25.18	AAAA
ATOM	2049	CA	ASP	A	258	22.935	39.753	56.379	1.00 26.18	AAAA
MOTA	2050	CB	ASP			22.950	38.830	55.149	1.00 25.52	AAAA
MOTA	2051	CG	ASP			23.211	37.392	55.494	1.00 26.33	AAAA
MOTA	2052	С	ASP			21.649	39:574	57.178	1.00 26.74	AAAA
ATOM	2053.	0	ĀSP			20.571	39.823	56.643	1.00 26.57	AAAA
ATOM	2054		ASP			23.014	37.029	56.675	1.00 26.85	AAAA
ATOM	2055		ASP			23.585	36.623	54.572	1.00 24.06	AAAA
ATOM	2056	N	PRO			21.727 22.834	39.114	58.449 59.271	1.00 26.95 1.00 27.34	AAAA
MOTA MOTA	2057 2058	CD CA	PRO		259 -	20.467	38.589 38.976	59.271	1.00 27.34	AAAA AAAA
ATOM	2059	CB	PRO			20.886	38.186	60.425	1.00 27.03	AAAA
MOTA	2060	CG			259	22.247	38.718	60.669	1.00 27.84	AAAA
ATOM	2061	C			259	19.914	40.365	59.543	1.00 27.32	AAAA
ATOM	2062	ō			259	18.739	40.510	59.871-	1.00 27.29	AAAA
ATOM	2063	N			260	20.771	41.383	59.452	1.00 26.97	AAAA
ATOM	2064	CA	LEU	A	260	20.389	42.763	59.752	1.00 26.74	AAAA
MOTA	2065	CB	LEU	Α	260	21.621	43.680	59.680	1.00 27.21	AAAA
ATOM	2066	CG			260	22.732	43.465	60.709	1.00 27.01	AAAA
MOTA	2067		LEU			23.889	44.380	60.408	1.00 25.51	AAAA
ATOM	2068		LEU			22.189	43.718	62.112	1.00 27.39	AAAA
ATOM	2069	C			260	19.295	43.351	58.865	1.00 26.47	AAAA
MOTA	2070 2071	0	LEU		260	19.278 18.413	43.137 44.126	57.649 59.494	1.00 26.72 1.00 26.32	AAAA
MOTA MOTA	2071	N CA	LEU			17.283	44.808	58.846	1.00 28.32	AAAA AAAA
ATOM	2072	CB	LEU			16.732	45.885	59.780	1.00 27.20	AAAA
ATOM	2074	CG	LEU			15.644	46.789	59.190	1.00 29.24	AAAA
ATOM	2075		LEU			14.433	45.954	58.883	1.00 29.44	AAAA
ATOM -	2076	CD2	LEU	Α	261	15.284	47.906	60.162	1.00 29.72	AAAA
ATOM	2077	С	LEU	Α	261	17.506	45.454	57.473	1.00 27.90	AAAA
MOTA	2078	0	LEU	A	261	16.675	45.294	56.577	1.00 28.21	AAAA
ATOM	2079	N			262	18.597	46.202	57.310	1.00 27.61	AAAA
MOTA	2080	CA			262	18.887	46.877	56.043	1.00 26.92	AAAA
ATOM	2081	CB			262	19.949 19.549	47.955 49.119	56.241	1.00 25.85 1.00 25.36	AAAA AAAA
ATOM ATOM	2082 2083	CG CD	GLU		262	19.549	49.119	57.117 58.580	1.00 25.78	AAAA
ATOM	2083		GLU			19.859	47.631	58.938	1.00 24.64	AAAA
ATOM	2085		GLU			19.255	49.694	59.381	1.00 25.82	AAAA
ATOM	2086	c			262	19.346	45.995	54.882	1.00 28.79	AAAA
ATOM	2087	0	GLU	Α	262	19.354	46.439	53.724	1.00 28.70	AAAA
MOTA	2088	N			263	19.743	44.758	55.179	1.00 29.57	AAAA
MOTA	2089	CA			263	20.230	43.853	54.145	1.00 28.99	AAAA
MOTA	2090	CB	ASP			21.160	42.802	54.760	1.00 27.89	AAAA
MOTA	2091	CG	ASP			21.986	42.062	53.714	1.00 29.02	AAAA
MOTA	2092		ASP			23.194 21.438	41.863 41.663	53.95 7 52.660	1.00 28.06 1.00 28.80	AAAA AAAA
ATOM ATOM	2093 2094	C	ASP		263	19.066	43.197	53.431	1.00 29.73	AAAA
ATOM	2095	ō	ASP			18.258	42.510	54.043	1.00 29.75	AAAA
ATOM	2096	·N			264	19.002	43.416	52.122	1.00 31.25	AAAA
ATOM	2097	CA			264	17.925	42.888	51.306	1.00 32.43	AAAA
ATOM	2098	СВ			264	17.913	43.558	49.938	1.00 34.53	AAAA
MOTA	2099	CG			264	17.627	45.038	49.997	1.00 38.21	AAAA
ATOM	2100	CD1	TYR	A	264	18.664		49.983	1.00 39.87	AAAA
ATOM	2101		TYR			18.409	47.335	50.068	1.00 41.74	AAAA
ATOM	2102		TYR			16.316	45.511	50.103	1.00 40.10	AAAA
MOTA	2103	CE2	TYR			16.044	46.877	50.191	1.00 41.50	AAAA
ATOM	2104	CZ			264	17.095	47.786	50.170	1.00 42.75 1.00 44.65	AAAA AAAA
MOTA	2105	OH			264	16.838 17.897	49.147 41.385	50.231 51.135	1.00 44.65	AAAA
ATOM	2106 2107	С 0			264 264	16.819	40.816	50.968	1.00 32.30	AAAA
atom atom	2107	:1			265	19.064	40.740	51.171	1.00 32.64	AAAA
ATOM	3109	CA			265	19.122	39.281	51.036	1.00 31.92	AAAA
ATOM	2110	CB			265	20.525	38.823	50.617	1.00 32.75	AAAA
ATOM	2111	CG			265	20.808	39.010	49.127	1.00 32.95	AAAA
ATOM	2112		LEU			22.213	38.588	48.771	1.00 31.59	AAAA

ATOM	2113	CD2	LEU A	265	19.803	38.166	48.361	1.00 34.62	AAAA
ATOM	2114		LEU A		18.693	38.540	52.296	1.00 30.33	AAAA
	2115	-	LEU A		19.024	37.375	52.484	1.00 30.30	AAAA
ATOM		-	SER A		17.945	39.230	53.147	1.00 29.23	AAAA
ATOM	2116				17.434	38.649	54.371	1.00 29.72	AAAA
MOTA	2117		SER A		18.398	38.894	55.519	1.00 32.09	AAAA
- MOTA	2118		SER A					1.00 32.03	AAAA
MOTA	2119	OG	SER A		17.728	38.810	56.771		ÀAAA
MOTA	2120	С	SER A		16.115	39.290	54.698	1.00 28.71	
ATOM	2121	0	SER A	266	15.924	40.473	54.444	1.00 29.67	AAAA
MOTA	2122		LYS A		15.209	38.517	55.276	1.00 27.82	AAAA
ATOM	2123	CA	LYS A	267	13.908	39.045	55.654	1.00 27.56	AAAA
ATOM	2124	CB	LYS A	.267	12.821	38.076	55.222	1.00 28.75	AAAA
ATOM	2125		LYS A	267	12.733	37.922	53.718 -	1.00 29.67	AAAA
ATOM	2126		LYS A		12.343	39.223	53.053	1.00 30.13	AAAA
ATOM	2127		LYS A		12.303	39.036	51.546	1.00 31.86	AAAA
ATOM	2128		LYS A		11.796	40.252	50.843	1.00 33.92	- AAAA
MOTA	2129	C	LYS A		13.800	39.327	57.152	1.00 27.18	AAAA
	2130	Ö	LYS A		12.707	39.591	57.665	1.00 27.18	AAAA
ATOM	2131	N	PHE A		14.944	39.267	57.836	1.00 26.12	AAAA
ATOM	2132	CA	PHE A		15.048	39.532	59.271	1.00 25.72	AAAA
ATOM	2132	CB	PHE A		16.272	38.830	59.856	1.00 24.94	AAAA
MOTA			PHE A		16.167	37.334	59.896	1.00 25.07	AAAA
ATOM	2134	CG	PHE A		17.271	36.565	60.267	1.00 24.56	
ATOM	2135				14.955	36.687	59.629	1.00 23.76	AAAA
MOTA	2136		PHE A		•		60.384	1.00 23.71	AAAA
MOTA	2137		PHE A		17.174	35.169	59.739	1.00 23.71	AAAA
MOTA	2138		PHE A		14.850	35.303		1.00 23.68	AAAA
ATOM	2139	CZ	PHE A		15.966	34.542	60.121	1.00 25.77	AAAA
MOTA	2140	С	PHE A		15.190	41.030	59.513	1.00 25.77	AAAA
MOTA	2141	0	PHE A		15.811	41.734	58.726		AAAA
ATOM	2142	N	ASN A		14.606	41.524	60.595	1.00 26.02	· AAAA
ATOM	2143	CA	ASN A		14.718	42.943	60.890	1.00 26.58	· ·
MOTA	2144	CB	ASN A		13.330	43.584	61.058	1.00 25.47	AAAA
MOTA	2145	CG	ASN A		12.379	43.252.	59.906	1.00 25.37	AAAA
ATOM	2146		ASN A		12.761	43.260	58.734	1.00 23.82	AAAA
MOTA	2147	ND2	ASN A	269	11.123	42.985	60.245	1.00 24.03	AAAA
ATOM	2148	С	ASN A	. 269	15.540	43.112	62.169	1.00 26.82	AAAA
ATOM	2149	0	ASN A		15.089	43.715		1.00 27.98	AAAA
ATOM	2150	N	LEU A	. 270	16.744	42.559	62.149	1.00 26.07	AAAA
ATOM	2151	CA	LEU A	. 270	17.639	42,642	63.289	1.00 25.97	AAAA
MOTA	2152	CB	LEU A	270	18.634	41.479	63.265	1.00 23.76	AAAA
ATOM	2153	CG	LEU A	270	18.048	40.070	63.225	1.00 23.36	AAAA
ATOM	2154	CD1	LEU A	270	19.115	39.090	63.710	1.00 21.90	AAAA
ATOM	2155	CD2	LEU A	270	16.824	39.971	64.122	1.00 22.05	AAAA
ATOM	2156	С	LEU A		18.420	43.961	63.360	1.00 27.13	AAAA
ATOM	2157	Ó	LEU A		18.475	44.750	62.399	1.00 25.99	AAAA
ATOM	2158	N	SER A	271	19.038	44.176	64.517	1.00 27.97	. AAAA
ATOM	2159	CA	SER A	271	19.832	45.370	64.767	1.00 27.95	AAAA
ATOM	2160	CB	SER A	271	19.235	46.137	65.943	1.00 27.32	AAAA
ATOM	2161	oG	SER A		19.184	45.297	67.089	1.00 27.90	AAAA
ATOM	2162	c	SER A		21.276	44.987	65.084	1.00 28.15	AAAA
ATOM	2163	ō	SER A		21.574	43.832	65.401	1.00 26.99	AAAA
ATOM	2164	N	ASN A		22.156	45.980	64.979	1.00 28.96	AAAA
	2165	CA	ASN A	272	23.590	45.861	65.266	1.00 29.54	AAAA
ATOM	2166	CB	ASN A	272	24.247	47.243	65.223	1.00 30.96	AAAA
ATOM		CG	ASN A		24.647	47.640	63.850	1.00 31.20	AAAA
MOTA	2167		ASN A		24.960	48.794	63.594	1.00 31.73	AAAA
MOTA	2168				24.670	46.674	62.948	1.00 31.93	AAAA
ATOM	2169		ASN A			45.309	66.645	1.00 29.63	AAAA
ATOM	2170	C	ASN A		24.574	44.361	66.843	1.00 29.85	AAAA
MOTA	2171	0	ASN A		23.180	45.959	67.600	1.00 29.77	AAAA
MOTA	2172	Ŋ	VAL A			45.602	68.994	1.00 30.89	AAAA
MOTA	2173	CA	VAL		23.290			1.00 31.61	AAAA
atom	2174	CB	VAL A		22.436	46.576	69.816 71.293	1.00 33.17	AAAA
MOTA	2175	CG1	VAL A	A 273	22.716	46.403		1.00 33.17	AAAA
ATOM	2176		VAL A	A 2/3	22.740	47.998			AAAA
ATOM	2177	C	VAL A		22.883	44.144		1.00 30.74	AAAA
MOTA	2178	0	VAL A	A 273	23.550	43.431	70.022	1.00 31.43	- trans

				224	21.785	43.706	68.659	1.00 30.25	AAAA
MOTA	2179	N	ALA A				68.840	1.00 29.87	AAAA
MOTA	2180	CA	ALA A		21.327	42.333			
ATOM	2181	CB	ALA A	274	20.005	42.119	68.112	1.00 29.64	AAAA
ATOM	2182	С	ALA A	274	22.395	41.438	68.247	1.00 29.35	AAAA
ATOM	2183	0	ALA A	274	22.707	40.373	68.778	1.00 29.18	AAAA
	2184	N	PHE A		22.946	41.893	67.127	1.00 29.30	AAAA
ATOM			PHE A		23.991	41.170	66.428	1.00 28.91	AAAA
ATOM	2185	CA					65.150	1.00 28.77	AAAA
ATOM	2186	CB	PHE A		24.375	41.909			
ATOM	2187	CG	PHE A		25.354	41.170	64.308	1.00 28.08	AAAA
MOTA	2188	CD1	PHE A	275	25.015	39.954	63.740	1.00 28.92	AAAA
ATOM	2189	CD2	PHE A	275	26.621	41.684	64.077	1.00 29.48	AAAA
ATOM	2190	CE1	PHE A	275	25.928	39.259	62.945	1.00 29.20	AAAA
	2191		PHE A		27.546	40.988	63.279	1.00 29.24	AAAA
MOTA			PHE A		27.193	39.779	62.716	1.00 28.30	AAAA
MOTA	2192	CZ			25.196	41.058	67.351	1.00 27.64	AAAA
ATOM	2193	C	PHE A					1.00 27.65	AAAA
MOTA	2194	0	PHE A		25.728	39.975	67.558		
MOTA	2195	N	LEU A	276	25.606	42.189	67.902	1.00 26.81	AAAA
ATOM	2196	CA	LEU A	276	26.732	42.260	68.831	1.00 27.38	AAAA
ATOM	2197	CB	LEU A	276	26.878	43.700	69.353	1.00 27.53	AAAA
ATOM	2198	CG	LEU A	276	28.202	44.213	69.928	1.00 26.37	AAAA
ATOM	2199		LEU A		27.923	45.488	70.721	1.00 25.71	AAAA
	2200		LEU A		28.842	43.189	70.827	1.00 27.06	AAAA
ATOM					26.486	41.317	70.021	1.00 26.49	AAAA
MOTA	2201	C	LEU A		27.387		70.471	1.00 25.26	AAAA
MOTA	2202	0	LEU A		_	40.603			'AAAA
MOTA	2203	N	LYS A		25.257	41.322	70.524	1.00 27.46	_
ATOM	2204	ÇA	LYS A		24.894	40.468	71.642	1.00 28.63	AAAA
ATOM	2205	CB	LYS A	277	23.542	40.862	72.223	1.00 30.63	AAAA
ATOM	2206	CG	LYS A	277	23.590	42.029	73.153	1.00 33.14	AAAA ,
ATOM	2207	CD	LYS A		22.599	41.791	74.268	1.00 34.94	AAAA
	2208	CE	LYS A		22.964	40.519	75.029	1.00 36.17	AAAA
ATOM		NZ	LYS A		21.979	40.194	76.104	1.00 38.64	AAAA
MOTA	2209				24.846	38.997	71.297	1.00 28.53	AAAA
MOTA	2210	C	LYS A				72.146	1.00 28.45	AAAA
MOTA	2211	0	LYS A		25.118	38.152			AAAA
MOTA	2212	N	ALA A		24.466	38.681	70.064	1.00 28.47	
MOTA	2213	CA	ALA A	278	24.404	37.280	69.656	1.00 27.66	AAAA
MOTA	2214	CB	ALA A	278	23.941	37.181	68.201	1.00 26.40	AAAA
ATOM	2215	С	ALA A	278	25.833	36.754	69.820	1.00 26.63	AAAA
ATOM	2216	0	ALA A		26.081	35.644	70.317	1.00 25.19	AAAA
ATOM	2217	N	PHE A		26.764	37.616	69.427	1.00 26.50	AAAA
	2218	CA	PHE A		28.181	37.345	69.481	1.00 25.83	AAAA
ATOM			PHE A		28.934	38.521	68.869	1.00 26.35	AAAA
MOTA	2219	CB			30.413	38.319	68.796	1.00 27.92	AAAA
MOTA	2220	CG	PHE A				68.072	1.00 28.58	AAAA
MOTA	2221		PHE A		30.949	37.256		1.00 28.33	AAAA
MOTA	2222		PHE A		31.280	39.201	69.434		
ATOM	2223		PHE A		32.330	37.078	67.983	1.00 28.22	AAAA
MOTA	2224	CE2	PHE A	279	32.666	39.030	69.349	1.00 28.11	AAAA
ATOM	2225	CZ	PHE A		33.185	37.968	68.622	1.00 28.21	AAAA
MOTA	2226	c	PHE A		28.665	37.118	70.901	1.00 25.47	AAAA
MOTA	2227	ō	PHE A		29.284	36.091	71.202	1.00 24.32	AAAA
	2228	N	ASN A		28.382	38.075	71.778	1.00 25.12	AAAA
MOTA			ASN A		28.841	37.944	73.147	1.00 25.05	AAAA
MOTA	2229	CA				39.269	73.887	1.00 24.42	AAAA
MOTA	2230	CB	ASN A		28.708			1.00 24.56	AAAA
ATOM	2231	CG	ASN A		29.683	40.300	73.364		
ATOM	2232	OD1	ASN A	280	30.841	39.980	73.080	1.00 23.24	AAAA
MOTA	2233	ND2	ASN A	. 280	29.233	41.543	73.249	1.00 24.59	AAAA
ATCM	2234	С	ASN A		28.213	36.814	73.925	1.00 24.79	AAAA
ATOM	2235	ō	ASN A		28.828	36.272	74.825	1.00 24.96	aaaa
	2236	N	ILE A		26.998	36.444	73.565	1.00 24.87	AAAA
MOTA			ILE A		26.332	35.337	74.220	1.00 24.80	AAAA
ATOM	2237	CA	TIE A	201	24.866	35.252	73.780	1.00 24.40	AAAA
ATOM	2238	CB	ILE A				74.124	1.00 25.03	AAAA
ATOM	2239	CG2	ILE A	. 78T	24.297	33.907		1.00 24.70	AAAA
MOTA	2240	CG1	ILE A	281	24.076	36.386	74.424		
ATOM	2241	CD1	ILE A	281	22.613	36.379	74.069	1.00 26.49	AAAA
ATOM	2242	С	ILE A	281	27.044	34.027	73.884	1.00 25.21	AAAA
ATOM	2243	0	ILE A	281	27.220	33.170	74.750	1.00 24.97	AAAA
ATCM	2244	N	VAL A	282	27.440	33.866	72.620	1.00 25.98	AAAA
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t mov	2245	CA	VAL A	282	28.150	32.656	72.193	1.00 25.15	አ አ ልኡ
ATOM					28.451	32.666	70.677	1.00 23.83	AAAA
MOTA	2246		VAL A					1.00 23.58	
ATOM	2247		VAL A		29.315	31.470	70.311		AAAA
ATOM	2248	CG2	VAL A	282	27.173	32.633	69.899	1.00 22.73	AAAA
			VAL A		29.478	32.553	72.936	1.00 25.73	AAAA
MOTA	2249						73.275	1.00 25.31	AAAA
ATOM	2250	0	VAL A		29.928	31.457			
ATOM	2251	N	ARG A	283	30.100	33.702	73.176	1.00 26.90	AAAA
ATOM	2252	CA	ARG A		31.372	33.760	73.885	1.00 28.87	AAAA
					32.027	35.131	73.684	1.00 28.16	AAAA
MOTA	2253	CB	ARG A					1.00 27.22	AAAA
ATOM	2254	CG	ARG A	283	32.364	35.440	72.240		
ATOM	2255	CD	ARG A	283	32.821	36.862	72.098	1.00 27.08	AAAA
			ARG A		34.035	37.116	72.854	1.00 26.73	AAAA
MOTA	2256	NE					73.091	1.00 26.82	AAAA
ATOM	2257	CZ	ARG A		34.514	38.327			
ATOM	2258	NH1	ARG A	283	33.873	39.384	72.626	1.00 27.36	AAAA
ATOM	2259		ARG A		35.622	38.484	73.798	1.00 26.95	AAAA
			ARG A		31.183	33.494	75.376	1.00 30.71	AAAA
MOTA	2260	С					76.027	1.00 30.68	AAAA
ATOM	2261	0	ARG A		32.086	32.981			
MOTA	2262	N	GLU A	284	30.014	33.842	75.911	1.00 32.71	AAAA
	2263	CA	GLU A		29.735	33.623	77.323	1.00 35.53	AAAA
MOTA			GLU A		28.482	34.391	77.751	1.00 37.39	AAAA
MOTA	2264	CB						1.00 41.73	AAAA
MOTA	2265	CG	GLU A	284	28.538	35.854	77.392		
ATOM	2266	CD	GLU A	284	27.272	36.631	77.754	1.00 45.27	AAAA
	2267		GLU A		26.151	36.078	77.610	1.00 46.66	AAAA
MOTA					27.405	37.817	78.148	1.00 46.94	AAAA
ATOM	2268	OE2	GLU A						
MOTA	2269	С	GLU A		29.524	32.133	77.564	1.00 36.25	AAAA
ATOM	2270	0	GLU A	284	29.920	31.593	78.601	1.00 37.85	AAAA
	2271	N	VAL A		28.916	31.464	76.591	1.00 35.24	AAAA
MOTA					00 677	30.041	76.708	1.00 33.88	AAAA
MOTA	2272	CA	VAL A						AAAA
ATOM	2273	CB	VAL A	. 285	27.505	29.619	75.737	1.00 33.71	
MOTA	2274	CG1	VAL A	285	27.201	28.137	75.888	1.00 32.59	AAAA
	2275		VAL A		26.254	30.457	76.001	1.00 32.77	AAAA
ATOM				_		29.149	76.456	1.00 33.47	AAAA
ATOM	2276	С	VAL A		29.847				AAAA
ATOM	2277	0	VAL A	. 285	30.140	28.262	77.257	1.00 34.23	
ATOM	2278	N	PHE A	286	30.568	29.389	75.364	1.00 32.34	AAAA
		CA	PHE A		31.706	28.535	75.036	1.00 29.92	AAAA
ATOM	2279					27.960	73.635	1.00 29.77	AAAA
ATOM	2280	CB	PHE A		31.533			1.00 28.64	AAAA
ATOM	2281	CG	PHE A	286	30.267	27.179	73.444		
ATOM	2282	CD1	PHE A	286	29.152	27.772	72.863	1.00 28.75	AAAA
	2283		PHE A		30.197	25.837	73.827	1.00 28.55	AAAA
MOTA					27.983	27.039	72.660	1.00 29.04	AAAA
MOTA	2284		PHE A					1.00 28.19	AAAA
MOTA	2285	CE2	PHE A	286	29.037	25.095	73.629		
ATOM	2286	CZ	PHE A	286	27.929	25.694	73.045	1.00 28.73	AAAA
	2287	c	PHE A		33.106	29.113	75.132	1.00 29.13	AAAA
ATOM					34.073	28.436	74.760	1.00 28.54	AAAA
MOTA	2288	0	PHE A				75.637	1.00 28.42	AAAA
ATOM	2289	N	GLY A	287	33.224	30.341			
ATOM	2290	CA	GLY A	287	34.525	30.987		1.00 27.07	AAAA
ATOM	2291	С	GLY F	287	34.932	31.611	74.419	1.00 26.64	AAAA
					34.088	32.042	73.649	1.00 27.13	AAAA
MOTA	2292	0	GLY A				74.146	1.00 27.20	AAAA
ATOM	2293	N	GLU A		36.227	31.665		1.00 27.20	
ATOM	2294	CA	GLU A	A 288	36.719	32.238	72.900	1.00 27.52	AAAA
ATOM	2295	CB	GLU A		38.073	32.923	73.108	1.00 28.18	AAAA
					38.036	34.177	73.959	1.00 28.88	AAAA
ATOM	2296	CG	GLU A				73.279	1.00 29.58	AAAA
ATOM	2297	CD		A 288 ·	37.329	35.330			AAAA
MOTA	2298	OE1	GLU A	A 288	37.807	35.813	72.243	1.00 29.94	
	2299		GLU A		36.281	35.761	73.782	1.00 31.89	AAAA
ATOM			CT 11 1	. 200	36.877	31.158	71.843	1.00 27.44	AAAA
MOTA	2300	С		A 288					AAAA
ATOM .	2301	0	GLU A	A 288	37.169				AAAA
MOTA	2302	N	GLY A	A 289	36.663	31.547			
	2303	CA		A 289	36.795		69.466	1.00 25.25	AAAA
ATOM			Ghi	. 207	37.285		68.254		AAAA
MOTA	2304	C	GLY A	A 289					AAAA
ATOM	2305	0		A 289	37.635				
ATOM	2306	N		A 290	37.320	30.765	67.095	1.00 24.04	AAAA
				A 290	37.756			1.00 23.76	: AAAA
ATOM	2307	CA			38.288				AAAA
ATOM	2308	CB		A 290					AAAA
ATOM	2309	CG1	VAL	A 290	38.835		63.596		AAAA
MOTA	2310		VAL		39.375	29.506	65.555	1.00 24.74	ммм
ATOM	2310	-02	 .		-		•		•
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ATOM .	2311	С	VAL A	290	36.536	32.122	65.277	1.00 23.90	AAAA
ATOM	2312	ō	VAL A		35.497	31.502	65.100	1.00 25.15	AAAA
ATOM	2313	N	TÝR A		36.662	33.415	64.976	1.00 23.09	AAAA
ATOM	2314	CA	TYR A		35.544	34.211	64.446	1.00 21.41	AAAA
ATOM	2315	CB	TYR A		35.472	35.540	65.193	1.00 20.57	AAAA
ATOM	2316	CG	TYR A		35.511	35:346	66.677	1.00 19.87	AAAA
ATOM	2317		TYR A		36.596	35.782	67.432	1.00 20.86	AAAA
	2317	CE1		-	36.677	35.513	68.793	1.00 21.47	AAAA
ATOM		CD2	TYR A		34.509	34:647	67.318	1.00 20.90	AAAA
ATOM	2319	CE2	TYR A		34.579	34.372	68.675	1.00 21.90	AAAA
ATOM	2320		TYR A		. 35.661	34.800	69.403	1.00 21.25	AAAA
MOTA	2321	CZ	TYR A		35.737	34.469	70.730	1.00 23.75	AAAA
ATOM	2322	ОН	TYR A		35.607	34.483	62.946	1.00 21.25	AAAA
ATOM	2323	C			36.573	35.077	62.451	1.00 21.25	AAAA
MOTA	2324	0	TYR A	· –	34.557	34.084	62.231	1.00 20.92	AAAA
MOTA	2325	N	LEU A		34.518	34.260	60.779-	1.00 20.92	AAAA
ATOM	2326	CA	LEU A		34.235	32.916	60.080	1.00 20.92	AAAA
MOTA	2327	CB	LEU A			31.688	60.399	1.00 17.31	AAAA
MOTA	2328	CG	LEU A		35.104	30.515	59.528	1.00 17.31	AAAA
ATOM	2329		LEU A		34.685		60.163	1.00 18.07	AAAA
MOTA	2330		LEU A		36.552	32.000 35.288		1.00 21.12	AAAA
ATOM	2331	C	LEU A		33.515		60.283	1.00 21.12	AAAA
MOTA	2332	0	LEU A		32.652	35.741	61.020		AAAA
ATOM	2333	Ŋ	GLY A		33.660	35.660	59.017	1.00 21.74	
ATOM	2334	CA	GLY A		32.752	36.612	58.410	1.00 21.48	AAAA
MOTA	2335	C	GLY A		31.612	35.856	57.770	1.00 21.65	AAAA AAAA
MOTA	2336	0	GLY A		31.237	34.790	58.235	1.00 22.25	
ATOM	2337	Ŋ	GLY A		31.060	36.392		1.00 22.66	AAAA
MOTA	2338	CA	GLY A		29.957	35.714	56.034	1.00 23.61	AAAA
MOTA	2339	С	GĻY A		29.180	36.653	55.146	1.00 24.56	AAAA
ATOM -	2340	0	GLY A		29.679	37.727	54.790	1.00 25.54	AAAA
MOTA	2341	N	GLY A		27.956	36.265	54.794	1.00 24.06	AAAA
MOTA	2342	CA	GLY A		27.139	37.093	53.927	1.00 22.78	AAAA
MOTA	2343	С	GLY A		26.902	38.479	54.483	1.00 23.11	AAAA
ATOM	2344	0	GLY A		26.870	38.676	55.696	1.00 22.87	AAAA
ATOM	2345	N	GLY A		26.733	39.442	53.584	1.00 22.78	AAAA
MOTA	2346	CA	GLY A		26.497	40.813	53.993	1.00 23.44	AAAA
ATOM	2347	C	GLY A		26.471	41.618	52.718	1.00 23.72	AAAA AAAA
MOTA	2348	0	GLY A		27.474	41.661	52.004	1.00 23.73	
ATOM	2349	N	TYR A		25.356	42.280	52.425	1.00 23.41	AAAA AAAA
ATOM	2350	CA	TYR A		25.282	42.991	51.163	1.00 22.71	
MOTA	2351	CB	TYR A		24.252	42.294	50.296	1.00 21.55	AAAA AAAA
MOTA	2352	CG	TYR A		24.496	40.809	50.317	1.00 21.93	AAAA
MOTA	2353	CD1			24.036	40.016	51.375	1.00 20.95	
MOTA	2354	CE1			24.400	38.678	51.481	1.00 21.59	AAAA AAAA
MOTA	2355	CD2			25.320	40.217	49.358	1.00 21.71	
MOTA	2356		TYR A		25.688	38.900	49.451	1.00 21.99	AAAA
MOTA	2357	CZ	TYR A		25.242	38.127	50.511	1.00 22.18	AAAA AAAA
MOTA	2358	ОН	TYR A		25.721	36.841	50.615	1.00 21.35	AAAA
MOTA	2359	С	TYR A		25.042	44.485	51.225	1.00 22.90	
ATOM	2360	0	TYR A		25.106	45.172	50.203	1.00 23.17	AAAA
ATOM	2361	Ŋ	HIS A		24.772	44.989	52.417		AAAA
ATOM	2362	CA	HIS A		24.572	46.415	52.566	1.00 24.27	AAAA
MOTA	2363	CB	HIS A		23.468	46.726	53.556	1.00 23.17	AAAA
ATOM	2364	CG	HIS A		23.097		53.572	1.00 23.20	AAAA
ATOM	2365		HIS A		23.588	49.201	54.287	1.00 24.25	AAAA
ATOM	2366		HIS A		22.199	48.708	52.680	1.00 23.14	AAAA
ATOM	2367		HIS ?		22.151	50.017	52.848	1.00 23.31	AAAA
ATOM	2368	NE2	HIS A		22.986	50.342	53.814	1.00 23.62	AAAA
MOTA	2369	C	HIS A		25.886	46.976	53.106	1.00 25.17	AAAA
ATOM	2370	O	HIS ?		26.282	46.687	54.239	1.00 24.47	AAAA
ATOM	2371	N	PRO A		26.563	47.818	52.316	1.00 26.37	AAAA
MOTA	2372	CD	PRO A		26.178	48.372	51.006	1.00 27.01	AAAA
MOTA	2373	CA	PRO A		27.840	48.394	52.752	1.00 27.31	AAAA
ATOM	2374	CB		A 299	28.156	49.383	51.630	1.00 27.04	AAAA
ATOM	2375	CG		A 299	26.743	49.764	51.120	1.00 27.57	AAAA
ATCM	2376	С	PRO A	A 299	27.824	49.037	54.149	1.00 27.77	AAAA
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								1 00 30 04	AAAA
MOTA	2377	0	PRO A	299	28.755	48.826	54.939	1.00 28.04	AAAA
MOTA	2378	N	TYR A	300	26.769		54.452	1.00 27.04	
MOTA	2379	CA	TYR A	300	26.629		55.740	1.00 27.59	AAAA
ATOM	2380	CB		A 300	25.425	51.437	55.700	1.00 30.57	AAAA
ATOM	2381	CG		300	25.516	52.599	54.718	1.00 32.91	AAAA
	2382			300	26.181		53.491	1.00 33.45	AAAA
ATOM -	_			A 300	26.160	53.487	52.538	1.00 33.91	AAAA
MOTA	2383				24.837		54.969	1.00 34.19	AAAA
MOTA	2384		TYR A					1.00 34.64	AAAA
MOŢA	2385	CE2		A 300	24.809			1.00 34.56	AAAA
ATOM	2386	CZ		A 300	25.468		52.807		AAAA
ATOM	2387	OH	TYR A	A 300	25.389		51.844	1.00 36.05	AAAA
ATOM	2388	С	TYR A	A ,300	26.45		56.936	1.00 26.48	
ATOM	2389	O	TYR	A 300	· 27.07	49.726	57.979 -	1.00 25.81	AAAA
ATOM	2390	N		A 301	25.583	48.547	56.791	1.00 25.41	AAAA
	2391	CA		A 301	25.32	47.606	57.865	1.00 24.64	AAAA
ATOM			313	A 301	24.16		57.511	1.00 25.32	-AAAA
MOTA	2392	CB	WIW .	2 201 2 201	26.56		58.067	1.00 25.53	AAAA
MOTA	2393	C,		A 301	27.03			1.00 26.39	AAAA
MOTA	2394	0		A 301			56.950	1.00 25.83	AAAA
MOTA	2395	N		A 302	27.10			1.00 26.32	AAAA
ATOM	2396	CA	LEU	A 302	28.32		56.926	1.00 27.38	AAAA
ATOM	2397	CB		A 302	28.78		55.479		AAAA
ATOM	2398	CG	LEU	A 302	30.08		55.024	1.00 28.18	
ATOM	2399		LEU	A 302	30.11	9 44.840	53.502	1.00 29.32	AAAA
	2400	CD2	LEU	A 302	31.29	6 45.389	55.613	1.00 27.38	AAAA
ATOM			LEII	A 302	29.39		57.764	1.00 26.41	AAAA
MOTA	2401	C		A 302	29.87		58.755	1.00 26.62	AAAA
MOTA	2402	0			29.75	6 47 397	57.353	1.00 26.50	AAAA
MOTA	2403	N		A 303	30.77		58.022	1.00 25.92	AAAA
ATOM	2404	CA		A 303			57.277	1.00 25.24	AAAA
ATOM	2405	CB		A 303	31.00		59.487	1.00 26.03	AAAA
MOTA	2406	С		A 303	30.49			1.00 26.95	AAAA
ATOM	2407	0	ALA.	A 303	31.32		60.340		AAAA
ATOM	2408	N	ARG	A 304	29.32		59.792	1.00 25.29	AAAA
ATOM	2409	CA	ARG	A 304	28.99		61.179	1.00 23.46	
ATOM	2410	CB	ARG	A 304	. 27.64	1 50.059	61.291	1.00 23.78	AAAA
ATOM	2411	ĊĠ	ARG	A 304	27.55	3 51.451	60.629	1.00 24.59	AAAA
	2412	CD	ARG	A 304	26.30	2 52.223	61.091	1.00 25.85	AAAA
ATOM	2413	NE	ARG	A 304	25.06	7 51.465	60.869	1.00 27.54	AAAA
MOTA	2414	CZ	N DC	A 304	23.97		61.637	1.00 28.36	AAAA
ATOM				A 304	23.95			1.00 26.48	AAAA
MOTA	2415	MUI	ARG	2 304	22.91			1.00 28.45	AAAA
ATOM	2416		ARG	A 304	28.99			1.00 23.18	AAAA
ATOM	2417	С	ARG	A 304				1.00 22.26	AAAA
ATOM	2418	0		A 304	29.59			1.00 23.20	AAAA
MOTA	2419	Ŋ	ALA	A 305	28.33			1.00 22.33	AAAA
ATOM	2420	CA	ALA	A 305	28.20			1.00 22.17	AAAA
ATOM	2421	CB	ALA	A 305	27.31			1.00 22.27	AAAA
ATOM	2422	С	ALA	A 305		6 45.137	~ - · ·		AAAA
ATOM	2423	0	ALA	A 305	29.76		63.760	1.00 22.48	AAAA
MOTA	2424	N	TRP	A 306	30.36	6 44.969		1.00 22.57	
MOTA	2425	CA		A 306	31.63	44.307	61.861	1.00 21.28	AAAA
ATOM	2426	СВ		A 306	32.27		60.553	1.00 21.07	AAAA
	2427	CG	ממיד	A 306	31.70		60.004	1.00 20.75	AAAA
ATOM			ממת י	A 306	31.88		58.683	1.00 19.54	AAAA
ATOM	2428	CD2	TINE .	A 306	31.39			1.00 19.18	AAAA
MOTA	2429	CEA	IRP	A 300	32.45	_		1.00 19.59	AAAA
ATOM	2430	CE.	TRP	A 306				1.00 20.51	AAAA
MOTA	2431	CD:	LTRP	A 306	31.0			1.00 19.74	AAAA
MOTA	2432	NE.	L TRP	A 306	30.80			1.00 19.18	AAAA
MOTA	2433			A 306					AAAA
MOTA	2434			A 306	32.4				AAAA
MOTA	2435		2 TRP	A 306	31.93				
	2436		TRP	A 306	32.5	71 45.159			AAAA
MOTA	2437			A 306		59 44.630		1.00 20.55	AAAA
MOTA			THE	A 307			62.614	1.00 20.17	AAAA
ATCM	2438		Ann Tuv	A 307				1.00 20.54	AAAA
MOTA	2439								AAAA
atom	2440			A 307					AAAA
ATOM	2441		1 THR	A 307					AAAA
ATCM	2442	. CG	Z THR	A 307	33.5	47.03	, 54.030	_,	•
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ATOM	2443	С	THR	Α	307	32.853	47.135	64.893	1.00 20.88	AAAA
ATOM	2444	0	THR	Α	307	33.738	47.175	65.747	1.00 21.89	AAAA
	_									
MOTA	2445	N	LEU	A	308	31.588	46.851	65.192	1.00 20.10	AAAA
ATOM	2446	CA	LEU	Α	308	31.189	46.543	66.559	1.00 21.10	AAAA
						29.671			1.00 20.99	
ATOM	2447	CB	LEU				46.340	66.644		AAAA
MOTA	2448	CG	LEU	Α	308	28.897	47.656	66.674	1.00 21.54	AAAA
ATOM	2449	CDI	LEU			27.397	47.473	66.411	1.00 19.91	AAAA
ATOM	2450	CD2	LEU	Α	308	29.177	48.283	68.045	1.00 21.04	AAAA
ATOM	2451	С	LEU	Δ	308	31.886	45.284	67.052	1.00 21.98	AAAA
MOTA	2452	0	LEU	Α	308	32.284	45.186	68.215	1.00 22.17	AAAA
ATOM	2453	N	ILE	Α	309	32.023	44.310	66.165	1.00 22.32	AAAA
ATOM	2454	CA	ILE			32.658	43.069	66.544	1.00 23.12	AAAA
ATOM	2455	CB	ILE	Α	309	32.590	42.016	65.413	1.00 22.33	AAAA
ATOM	2456		ILE			33.356	40.787	65.827	1.00 21.76	AAAA
					and the second s					
MOTA	2457	CG1	ILE	Α	309	31.140	41.678	65.061	1.00 22.16	AAAA
ATOM	2458	CD1	ILE	A	309	30.366	41.037	66.166	1.00 22.01	AAAA
MOTA	2459	С			309	34.115	43.377	66.790	1.00 24.52	AAAA
ATOM	2460	0	ILE	Α	309	34.734	42.828	67.709	1.00 25.72	AAAA
ATOM	2461	N	TPD	Δ	310	34.673	44.253	65.957	1.00 24.70	AAAA
ATOM	2462	CA	TRP	A	310	36.075	44.570	66.099	1.00 24.20	AAAA
MOTA	2463	CB	TRP	Α	310	36.587	45.417	64.944	1.00 23.29	AAAA
							45.712	65.123		
ATOM	2464	CG			310	38.040			1.00 23.17	AAAA
ATOM	2465	CD2	TRP	Α	310	39.104	44.752	65.257	1.00 21.36	AAAA
ATOM	2466	CE2	TRP	A	310	40.291	45.472	65.490	1.00 20.62	AAAA
ATOM	2467	CE3	TRP	Α	310	39.165	43.354	65.202	1.00 20.01	AAAA
ATOM	2468	CD1	TRP	Α	310	38.614	46.938	65.273	1.00 22.82	AAAA
ATOM	2469		TRP			39.967	46.803	65.497	1.00 22.30	AAAA
MOTA	2470	CZZ	TRP	Α	310	41.521	44.845	65.668	1.00 19.91	AAAA
ATOM	2471	CZ3	TRP	Α	310	40.388	42.734	65.381	1.00 19.08	AAAA
ATOM	2472	CH2	TRP	Δ	310	41.547	43.477	65.610	1.00 19.40	AAAA
ATOM	2473	С			310	36.318	45.279	67.411	1.00 25.26	AAAA
MOTA	2474	0	TRP	Α	310	37.262	44.945	68.109	1.00 24.71	AAAA
ATOM	2475	N	CYS	Α	311	35.467	46.247	67.749	1.00 26.76	AAAA
ATOM	2476	CA	CYS			35.608	46.975	69.007	1.00 27.89	AAAA
ATOM	2477	CB	CYS	A	311	34.548	48.081	69.113	1.00 28.98	AAAA
MOTA	2478	SG	CYS	Α	311	34.798	49.462	67.991	1.00 31.89	AAAA
ATOM	2479	С	CYS			35.495	46.043	70.212	1.00 27.51	AAAA
ATOM	2480	0	CYS			36.289	46.127	71.135	1.00 26.90	AAAA
MOTA	2481	N	GLU	Α	312	34.495	45.169	70.187	1.00 27.33	AAAA
ATOM	2482	CA	GLU	A	312	34.246	44.210	71.250	1.00 28.03	AAAA
								70.850	1.00 28.55	AAAA
ATOM	2483	CB	GLU			33.106	43.287			
MOTA	2484	CG	GLU	Α	312	31.903	43.333	71.741	1.00 28.93	AAAA
ATOM	2485	CD	GLU	A	312	32.232	42.958	73.154	1.00 29.78	AAAA
						32.954	41.957	73.345	1.00 30.81	AAAA
ATOM	2486		GLU							
ATOM	2487	OE2	GLU	Α	312	31.754	43.653	74.071	1.00 30.79	AAAA
MOTA	2488	С	GLU	Α	312	35.463	43.357	71 514	1.00 28.91	AAAA
ATOM	2489	0	GLU			35.822	43.110	72 662	1.00 30.57	AAAA
ATOM	2490	N	LEU	А	313	36.081	42.889	70.436	1.00 29.04	AAAA
ATOM	2491	CA	LEU	A	313	37.266	42.045	70.516	1.00 28.87	AAAA
	2492		LEU			37.524	41.373	69.157	1.00 29.39	AAAA
MOTA		CB								
ATOM	2493	CG	LEU	A	313	36.548	40.311	68.644	1.00 30.32	AAAA
ATOM	2494	CD1	LEU	A	313	36.910	39.872	67.215	1.00 30.26	AAAA
	2495	-	LEU			36.582	39.114	69.593	1.00 30.42	AAAA
ATOM										
MOTA	2496	С	LEU			38.474	42.888	70.905	1.00 27.75	AAAA
ATOM	2497	0	LEU	А	313	39.215	42.553	71.808	1.00 27.34	AAAA
ATOM	2498	N	SER			38.642	43.986	70.191	1.00 27.95	AAAA
MOTA	2499	CA	SER			39.736	44.927	70.376	1.00 28.62	AAAA
MOTA	2500	CB	SER	A	314	39.690	45.937	69.231	1.00 27.49	AAAA
ATOM	2501	OG	SER			40.703	46.904	69.343	1.00 30.12	AAAA
									1.00 29.67	
ATOM	2502	C	SER			39.666	45.653	71.727		AAAA
MOTA	2503	0	SER	A	314	40.488	46.517	72.023	1.00 29.00	AAAA
ATCM	2504	N	GLY			38.676	45.302	72.538	1.00 30.78	AAAA
									1.00 32.92	AAAA
MOTA	2505	CA	GLY			38.535	45.935	73.827		
ATOM	2506	С	GLY			38.542	47.452	73.784	1.00 34.92	AAAA
ATCM	2507	0	GLY	Α	315	39.142	48.091	74.647	1.00 35.17	AAAA
	2508	N	ARG			37.881	48.041	72.794	1.00 36.88	AAAA
MOTA	- JUO	1.4	W	.,	510	57.502	10.041	14.134	2.00 30.00	

ATOM	2509	CA	ARG	A	316	37.841	49.493	72.702	1.00 39.49	AAAA
ATOM	2510	CB	ARG	Α	316	38.608	49.968	71.484	1.00 39.86	AAAA
ATOM	2511	CG			316	37.946	49.677	70.161	1.00 40.77	AAAA
MOTA	2512	CD			316	38.843	50.226	69.077	1.00 41.47	AAAA
ATOM	2513	NE			316	40.140	49.566	69.092	1.00 42.36	AAAA
ATOM	2514	CZ	ARG	A	316	41.224	50.057	68.515	1.00 43.38	AAAA
MOTA	2515	NH1	ARG	Α	316	41.159	51.217	67.882	1.00 44.76	AAAA
ATOM	2516				316	42.361	49.385	68.556	1.00 43.71	AAAA
						36.418	50.015	72.631	1.00 41.54	
ATOM	2517	C			316					AAAA
MOTA	2518	0			316	35.564	49.429	71.959	1.00 42.64	AAAA
ATOM	2519	N	GLU	Α	317	36.163	51.119	73.329	1.00 43.10	AAAA
ATOM	2520	CA	GLU	Α	317	34.830	51.720	73.356	1.00 44.51	AAAA
ATOM	2521	CB	GLU	Α	317	34.809	52.936	74.293	1.00 46.17	AAAA
ATOM	2522	CG			317	34.472	52.614	75.759	1.00 49.65	AAAA
ATOM	2523	CD			317	35.426	51.623	76.439	1.00 52.51	AAAA
	2524				317	35.153	51.251	77.607	1.00 53.37	AAAA
MOTA										
ATOM	2525	-			317	36.444	51.214	75.831	1.00 54.14	AAAA
ATOM	2526	C			317	34.318	52.098	71.974	1.00 43.86	AAAA
ATOM	2527	0	GLU	Α	317	35.067	52.532	71.108	1.00 42.46	AAAA
ATOM	2528	N	VAL	Α	318	33.023	51.916	71.779	1.00 44.79	AAAA
ATOM	2529	CA	VAL	Α	318	32.394	52.197	70.502	1.00 45.57	AAAA
ATCM	2530	CB			318	31.098	51.369	70.324	1.00 45.36	AAAA
	2531		VAL			30.537	51.558	68.924	1.00 45.44	AAAA
ATOM							49.911			
ATOM	2532		VAL			31.366		70.612	1.00 46.35	AAAA
MOTA	2533	С			318	32.007	53.652	70.377	1.00 46.41	AAAA
MOTA	2534	0			318	31.199	54.145	71.165	1.00 46.53	AAAA
ATOM	2535	N	PRO	A	319	32.584	54.370	69.396	1.00 46.89	AAAA .
ATOM	2536	CD	PRO	Α	319	33.581	54.017	68.375	1.00 46.44	AAAA
ATOM	2537	CA	PRO	А	319	32.209	55.774	69.247	1.00 47.62	AAAA
ATOM	2538	СВ			319	33.022	56.206	68.024	1.00 46.96	AAAA
ATOM	2539	CG			319	33.161	54.922	67.251	1.00 46.38	AAAA
						30.709				
MOTA	2540	C			319		55.743	68.977	1.00 48.64	AAAA
ATOM	2541	0			319	30.236	54.860	68.262	1.00 48.61	AAAA
ATOM	2542	N			320	29.944	56.667	69.544	1.00 49.24	AAAA
MOTA	2543	CA	GLU	A	320		.56.598	69.288	1.00 50.01	AAAA
ATOM	2544	CB	GLU	Α	320	27.720	57.330	70.363	1.00 51.15	AAAA
ATOM	2545	ÇG	GLU	Α	320	27.828	58.831	70.339	1.00 53.01	AAAA
ATOM	2546	CD			320	26.825	59.474	71.282	1.00 54.34	AAAA
ATOM	2547		GLU			25.604	59.273	71.077	1.00 54.04	AAAA
	2548	OE2	GLU			27.255	60.171	72.228	1.00 55.06	AAAA
ATOM						28.206				
ATOM	2549	С			320		57.168	67.921	1.00 49.78	AAAA
MOTA	2550	0			320	27.170	56.861	67.324	1.00 49.79	AAAA
ATOM	2551	N			321	29.116	57.980	67.407	1.00 49.26	AAAA
ATOM	2552	CA	LYS	Α	321	28.906	58.589	66.109	1.00 49.20	AAAA
ATOM	2553	CB	LYS	Α	321	28.873	60.106	66.251	1.00 50.38	AAAA
MOTA		CG	LYS	Α	321	30.234	60.674	66.634	1.00 52.88	AAAA
ATOM	555	CD	LYS			30.717	60.180	68.002	1.00 53.76	AAAA
ATOM	2356	CE	LYS			32.229	60.348	68.154	1.00 55.00	AAAA
							61.725	67.829	1.00 55.95	AAAA
MOTA	2557	NZ	LYS							
ATOM	2558	C	LYS				58.207	65.171	1.00 48.64	AAAA
ATOM	2559	0	LYS			31.052	57.650	65.590	1.00 48.58	AAAA
ATOM	2560	N	LEU	Α	322	29.854	58.511	63.894	1.00 47.78	АААА
ATOM	2561	CA	LEU	Α	322	30.870	58.238	62.896	1.00 46.13	AAAA
ATOM	2562	CB	LEU			30.248	57.638	61.638	1.00 46.84	AAAA
ATOM	2563	ĊĠ	LEU			29.240	56.504	61.848	1.00 47.71	AAAA
	2564		LEU					60.491	1.00 48.02	AAAA
MOTA										
MOTA	25,65		LEU				55.374	62.667	1.00 48.21	AAAA
MOTA	2566	C	LEU			31.427	59.608	62.580	1.00 44.61	AAAA
ATOM	2567	0	LEU				60.571	62.491	1.00 44.73	AAAA
ATOM	2568	N	ASN	Α	323	32.741	59.706	62.447	1.00 42.66	AAAA
ATOM	2569	CA	ASN				60.976	62.135	1.00 41.19	AAAA
ATOM	2570	CB	ASN				60.904	62.402	1.00 41.07	AAAA
	2571	CG	ASN			35.576	60.001	61.436	1.00 41.43	AAAA
ATOM							58.901	61.147	1.00 42.46	AAAA
ATOM	2572		ASN							
atom	2573		ASN				60.449	60.943	1.00 41.77	AAAA
MOTA	2574	С	ASN	A	323	33.068	61.223	60.658	1.00 40.76	AAAA

MOTA	2575	Ο.	ASN	Α	323	32.430	60.395	60.010	1.00 40.19	AAAA
ATOM	2576	N			324	33.523	62.352	60.129	1.00 40.11	AAAA
ATOM	2577	CA			324	33.268	62.699	58.735	1.00 39.99	AAAA
	2578	CB			324	33.711	64.128	58.472	1.00 39.54	AAAA
ATOM					324	33.711	65.114	59.361	1.00 40.88	
ATOM	2579	CG						59.417		AAAA
ATOM	2580		ASN			31.763	65.145		1.00 40.77	AAAA
ATOM	2581	ND2				33.779	65.938	60.064	1.00 40.63	AAAA
ATOM	2582	C			324	33.918	61.786	57.712	1.00 40.10	AAAA
ATOM	2583	С			324	33.320	61.468	56.678	1.00 39.24	AAAA
ATOM	2584	N			325	35.144	61.376	58.011	1.00 40.41	AAAA
MOTA	2585	CA			325 .	35.908	60.519	57.126	1.00 41.41	AAAA
MOTA	2586	CB			325	37.262	60.201	57.761	1.00 42.64	AAAA
ATOM	2587	CG			325	38.224	59.504	56.828	1.00 44.45	AAAA
MOTA	2588	CD			325	39.575	59.199	57.491	1.00 45.61	AAAA
ATOM	2589	CE			325	40.358	60.464	57.850	1.00 45.88	AAAA
ATOM	2590	NZ	LYS	λ	325	41.717	60.151	58.494	1.00 46.27	AAAA
MOTA	2591	С			325	35.124	59.248	56.856	1.00 41.56	AAAA
.ATOM	2592	0			325	35.042	58.781	55.716	1.00 41.35	AAAA
MOTA	2593	N	ALA	Α	326	34.524	58.703	57.906	1.00 41.32	aaaa
MOTA	2594	CA			326	33.732	57.492	57.774	1.00 41.07	AAAA
ATOM	2595	CB			326	33.452	56.912	59.143	1.00 40.87	AAAA
MOTA	2596	С			326	32.420	57.722	57.019	1.00 41.24	AAAA
ATOM	2597	0			326	32.045	56.913	56.174	1.00 40.91	aaaa
MOTA	2598	N			327	31.719	58.815	57.316	1.00 41.92	AAAA
ATOM	2599	CA			327	30.451	59.097	56.631	1.00 42.20	AAAA
MOTA	2600	CB			327	29.796	60.374	57.170	1.00 43.61	AAAA
ATOM	2601	CG			327	29.534	60.413	58,670	1.00 45.83	ببهري
MOTA	2602	CD			327	28.745	61.681	59.029	1.00 47.34	AAAA
MOTA	2603	CE			327	28.682	61.952	60.538	1.00 48.28	AAAA
MOTA	2604	NZ			327	28.090	60.845	61.351	1.00 48.98	AAAA
ATOM	2605	С			327	30.673	59.266	55.125	1.00 41.33	AAAA
ATOM	2606	0			327	29.879	58.797	54.309	1.00 40.78	AAAA
ATOM	2607	N			328	31.761	59.950	54.781	1.00 40.39	AAAA
ATOM	2608	CA			328	32.129	60.217	53.399	1.00 38.91	AAAA
ATOM	2609	CB			328	33.300	61.199	53.369	1.00 40.04	AAAA
ATOM	2610	CG			328	32.941	62.576	53.909	1.00 41.94	AAAA
MOTA	2611	CD			328	34.131	63.515	53.994 53.010	1.00 43.77	AAAA
ATOM	2612		GLU			34.904	63.595		1.00 44.29	AAAA AAAA
ATOM	2613	OE2			328	34.285	64.189 58.938	55.040 52.675	1.00 45.11 1.00 37.39	AAAA
ATOM .	2614	C			328	32.497	58.722	51.525	1.00 37.39	AAAA
MOTA	2615	0			328 329	33.255	58.091	53.355	1.00 37.31	AAAA
ATOM	2616 2617	N CA			329	33.657	56.820	52.783	1.00 33.07	AAAA
ATOM	2618				329	34.451	56.012	53.813	1.00 30.62	AAAA
ATOM	2619	CB CG			329	34.760	54.549	53.481	1.00 30.02	AAAA
ATOM	2620		LEU			35.549	54.453	52.193	1.00 27.48	AAAA
MOTA						35.514	53.936	54.622	1.00 25.74	AAAA
MOTA MOTA	2621 2622	C	LEU		329	32.405	56.057	52.368	1.00 33.24	AAAA
ATOM	2623	ō			329	32.239	55.708	51.205	1.00 32.72	AAAA
ATOM	2624	N			330	31.519	55.810	53.327	1.00 32.72	AAAA
ATOM	2625	CA			330	30.289	55.090	53.046	1.00 34.91	AAAA
ATOM	2626	CB			330	29.411	55.023	54.292	1.00 34.02	AAAA
ATOM	2627	CG			330	30.067	54.236	55.418	1.00 34.06	AAAA
	2628		LEU			29.096	54.060	56.571	1.00 33.63	AAAA
ATOM	2629		LEU			30.512	52.892	54.884	1.00 33.82	AAAA
ATOM	2630	c			330	29.499	55.695	51.907	1.00 35.94	AAAA
ATOM	2631	ō			330	28.984	54.968	51.060	1.00 36.14	AAAA
ATOM	2632	N			331	29.415	57.022	51.883	1.00 38.17	AAAA
ATOM	2633	CA			331	28.664	57.718	50.845	1.00 41.05	AAAA
ATOM	3634	CB			331	28.407	59.161	51.233	1.00 41.83	AAAA
ATOM	3635	CG			331	27.584	59.358	52.497	1.00 43.26	AAAA
ATOM	2636	CD			331	27.202	60.823	52.755	1.00 44.15	AAAA
ATOM	2637	CE			331	26.182	61.333	51,730	1.00 45.71	AAAA
ATOM	2638	NZ			331	25.695	62.735	51.993	1.00 45.95	AAAA
ATOM	2639	C			331	29.342	57.681	49.490	1.00 42.22	AAAA
ATOM	2640	0			331	28.712	57.980	48.480	1.00 41.94	AAAA
								-		

3 mov4.	2641	NT.	SER	λ	332		30.618	57.316	49.463	1.00 44.45	AAAA
MOTA	2641	N					31.351	57.271	48.202	1.00 46.88	AAAA
MOTA	2642	CA	SER								
ATOM	2643	CB	SER	Α	332		32.854	57.416	48.435	1.00 46.49	AAAA
ATOM	2644	OG	SER				33.380	56.263	49.058	1.00 45.65	AAAA
			SER				31.093	55.959	47.494	1.00 48.73	AAAA
ATOM	2645	С							_	1.00 49.51	AAAA
ATOM _	2646	0	SER				31.262	55.854	46.281		
ATOM	2647	N	ILE	Α	333		30.697	54.952	48.258	1.00 50.62	AAAA
			ILE				30.420	53.648	47.686	1.00 52.65	AAAA
MOTA	2648	CA							48.779	1.00 52.35	AAAA
MOTA	2649	CB	ILE	Α.	.333		30.246	52.584			
ATOM	2650	CG2	ILE	Α	333		29.889	51.248	48.157	1.00 51.40	AAAA
			ILE				31.522	52.465	49.596	1.00 52.29	AAAA
MOTA	2651						31.403	51.463	50.696	1.00 53.23	AAAA
ATOM	2652	CDI	ILE								
ATOM	2653	С	ILE	Α	333	•	29.120	53.712	46.924-		AAAA
MOTA	2654	0	ILE				28.122	54.178	47.462	1.00 55.10	AAAA
			ASP					53.274	45.672	1.00 56.56	AAAA
ATOM	2655	N								1.00 59.13	- AAAA
MOTA	2656	CA	ASP				27.863	53.263	44.940		
ATOM	2657	CB	ASP	Α	334		28.050	53.460	43.433	1.00 59.64	AAAA
	2658	CG			334 .		28.976	52.446	42.823	1.00 59.23	AAAA
MOTA							28.853	52.194	41.606	1.00 58.87	AAAA
MOTA	2659		ASP								
MOTA	2660	OD2	ASP	Α	334		29.83 9	51.925	43.559	1.00 59.34	AAAA
ATOM	2661	С			334		27.251	51.898	45.215	1.00 60.95	AAAA
					334	-	27.803	50.861	44.840	1.00 61.15	AAAA
MOTA	2662	0							45.897	1.00 62.56	AAAA
ATOM	2663	N			335		26.113	51.914			
MOTA	2664	CA	PHE	Α	335		25.414	50.701	46.257	1.00 64.12	AAAA
	2665	CB			335		25.311	50.621	47.779	1.00 64.40	AAAA
MOTA			_				24.224	49.714	48.263	1.00 64.98	AAAA
MOTA	2666	CG			335						AAAA
MOTA	2667	CD1	PHE	A	335		24.180	48.379	47.868	1.00 65.54	
ATOM	2668	CD2	PHE	Α	335		23.234	50.197	49.107	1.00 65.12	AAAA
			PHE				23.163	47.539	48.305	1.00 65.75	AAAA
MOTA	2669								49.552	1.00 65.79	AAAA
MOTA	2670	CEZ	PHE				22.213	49.367			
ATOM	2671	CZ	PHE	A	335		22.177	48.034	49.150	1.00 66.01	AAAA
ATOM	2672	c			335		24.025	50.626	45.640	1.00 65.41	AAAA
					335		23.591	49.564	45.184	1.00 65.27	AAAA
MOTA	2673	0							45.618	1.00 66.38	AAAA
MOTA	2674	N			336		23.338	51.763			
MOTA	2675	CA	GLU	Α	336		21.980	51.826	45.097	1.00 67.49	AAAA
ATOM	2676	CB	GLU	A	336		21.893	51.260	43.673	1.00 68.25	AAAA
					336		20.459	51.230	43.116	1.00 69.15	AAAA
MOTA	2677	CG					20.334	50.465	41.804	1.00 69.40	AAAA
MOTA	2678	CD			336						AAAA
ATOM	2679	OE1	GLU	A	336		20.710	49.271	41.784	1.00 69.57	
ATOM	2680				336		19.851	51.051	40.804	1.00 69.10	AAAA
					336		21.098	50.999	46.025	1.00 67.68	AAAA
MOTA	2681	C								1.00 67.58	AAAA
MOTA	2682	0			336		21.216	49.776	46.082		AAAA
MOTA	2683	N	GLU	A	337		20.227	51.679	46.761	1.00 67.87	
ATOM	2684	CA	GLII	Α	337		19.317	51.020	47.686	1.00 68.66	AAAA
					337		18.583	52.085	48.502	1.00 68.88	AAAA
MOTA	2685	CB	CLU	- 4	. 337					1.00 68.12	· AAAA
ATOM	2686	CG			337		18.279	51.715	49.944	1.00 00.12	
ATOM	2687	CD	GLU	A	337		19.527	51.587	50.789	1.00 67.70	AAAA
ATOM	2688		GLI	١.	337		20.319	52.554	50.851	1.00 67.05	AAAA
		051			337		19.711	50.518	51.398	1.00 67.79	AAAA
MOTA	2689		نايلون .	- 4	337					1.00 69.28	AAAA
ATOM	2690	C.			337		18.322	50.222	46.827		AAAA
ATOM	2691	o ·	GLU	A	337		17.886	50.705	45.780	1.00 69.50	
	2692	N			338		17.966	49.012	47.259	1.00 69.55	AAAA
ATOM							17.035	48.176	46.497	1.00 69.67	AAAA
ATOM	2693	CA			338					1.00 70.51	AAAA
ATOM	2694	CB	PHE	: A	338		16.995	46.759	47.066		
ATOM	2695	CG			338		16.225	45.789	46.221	1.00 71.57	AAAA
	2696				338		16.666	45.462	44.936	1.00 72.04	AAAA
MOTA		נעט	ne	,	220		15.052	45.208	46.698	1.00 71.69	AAAA
MOTA	2697				338						AAAA
ATOM	2698	CE1	PHE	: A	338		15.944	44.566	44.138		
ATOM	2699	(よ)	PHE	2 2	338		14.323	44.313	45.909	1.00 71.93	AAAA
							14.770	43.991	44.627	1.00 72.11	AAAA
MOTA	2700	CZ			338						AAAA
ATOM	2701	С			338		15.633	48.770			AAAA
ATOM	2702	0	PHE	2 2	338		15.072	49.029			
	2703	N			339		15.053	48.962	47.674	1.00 69.35	AAAA
MOTA			VO:		370		13.733	49.572			AAAA
MOTA	2704	CA	ASI		339						AAAA
· ATOM	2705	CB	ASI	? ?	339		13.134	49.457	_		
ATOM	2706	CG	ASI	,	339		11.819	50.233	49.299	1.00 69.72	'AAAA'
ALON									-		•

MOTA	2707	OD1	ASP	2.	330	11.813	51.462	49.058	1.00 69.39	AAAA
									1.00 69.78	
ATOM	2708	OD2	ASP	А	339	10.790	49.618	49.655		AAAA
ATOM	2709	С	ASP	Α	339	13.972	51.035	47.440	1.00 69.95	AAAA
	2710	Ō	ASP			14.305	51.815	48.333	1.00 69.92	AAAA
MOTA										
ATOM	2711	N	ASP -	·A	340	13.810	51.389	46.168	1.00 70.23	AAAA
MOTA	2712	CA	ASP	A	340	14.023	52.748	45.699	1.00 70.39	AAAA
								45.041	1.00 70.64	AAAA
MOTA	2713	CB	ASP	А	340	12.757	53.283			
ATOM	2714	CG	ASP	A	340	12.397	52.517	43.791	1.00 70.86	AAAA
			ASP			12.126	51.302	43.903	1.00 70.93	AAAA
MOTA	2715									
ATOM	2716	OD2	ASP	A	340	12.399	53.125	42.699	1.00 70.89	AAAA
ATOM	2717	С	ASP	Α	340	14.482	53.674	46.807	1.00 70.63	AAAA
			ASP		-	15.688	53.847	47.008	1.00 71.13	AAAA
MOTA	2718	0								
ATOM	2719	N	GLU	Α	341	13.543	54.259	47.544	1.00 69.95	AAAA ·
ATOM	2720	CA	GLU	A	341	13.947	55.150	48.619	1.00 69.17	AAAA
			GLU			13.636	56.613	48.266	1.00 70.83	AAAA
ATOM	2721	CB								
ATOM	2722	CG	GLU	Α	341	14.098	57.601	49.347	1.00 73.44	AAAA
MOTA	2723	CD	GLU	Α	341	13.956	59.071	48.951	1.00 75.27	AAAA
						12.825	59.518	48.646	1.00 76.21	AAAA
MOTA	2724		GLU							
ATOM	2725	OE2	GLU	Α	341	14.984	59. 786	48.954	1.00 75.69	AAAA
MOTA	2726	С	GLU	Δ	341	13.367	54.819	49.983	1.00 67.09	AAAA
							55.176	50.297	1.00 66.57	AAAA
ATOM	2727	0	GLU			12.233				
ATOM	2728	N	VAL	Α	342	14.158	54.114	50.785	1.00 64.87	AAAA
ATOM	2729	CA	VAL	2	342	13.767	53.779	52.148	1.00 62.55	AAAA
									1.00 62.81	AAAA
MOTA	2730	CB	VAL	A	342	14.265	52.377	52.589		
ATOM	2731	CG1	VAL	À	342	14.042	52.193	54.081	1.00 62.56	AAAA
	2732		VAL			13.513	51.298	51.849	1.00 63.69	AAAA
ATOM										AAAA
ATOM	2733	С	VAL	Α	342	14.483	54.822	52.982	1.00 59.94	
ATOM	2734	0	VAL	Α	342	14.022	55.215	54.054	1.00 59.91	AAAA
		N	ASP			15.609	55.278	52.442	1.00 56.85	AAAA
ATOM	2735					-				
MOTA	2736	CA	ASP	Ä	343	16.457	56.266	53.085	1.00 54.01	AAAA
ATOM	2737	CB	ASP	Α	343	15.639	57.446	53.605	1.00 54.18	AAAA
		ĊĠ			343	16.505	58.511	54.241	1.00 53.96	AAAA
MOTA	2738									
ATOM	2739	OD1	ASP	A	343	15.947	59.485	54.785	1.00 54.59	AAAA
ATOM	2740	OD2	ASP	Α	343 .	17.747	58.373	54.191	1.00 53.61	AAAA
	2741	c	ASP			17.186	55.609	54.242	1.00 51.92	AAAA
MOTA										AAAA
MOTA	2742	0	ASP	Α	343	16.611	55.371	55.307	1.00 51.89	
ATOM	2743	N	ARG	A	344	18.458	55.306	54.029	1.00 48.86	AAAA
		CA	ARG			19.240	54.676	55.069	1.00 45.59	AAAA
MOTA	2744									AAAA
ATOM	2745	CЭ	ARG	A	344	19.847	53.369	54.573	1.00 43.94	
ATOM	2746	CG	ARG	A	344	18.847	52.289	54.220	1.00 41.70	AAAA
					344	17.953	51.955	55.385	1.00 38.94	AAAA
ATOM	2747	CD							1.00 36.78	AAAA
ATOM	2748	NE	ARG	A	344	17.139	50.781	55.096		
ATOM	2749	CZ	ARG	А	344	16.176	50.316	55.888	1.00 34.81	AAAA
	2750		ARG			15.890	50.927	57.033	1.00 34.11	AAAA
MOTA	_									AAAA
ATOM	2751	NH2	ARG	Α	344	15.506	49.228	55.537	1.00 31.84	
ATOM	2752	С	ARG	Α	344	20.340	55.604	55.520	1.00 44.83	AAAA
	2753				344	21.308	55.157	56.128	1.00 43.97	A AA
MOTA		0						55.226	1.00 44.32	A- AA
ATOM	2754	N			345	20.192	56.895			
ATOM	2755	CA	SER	Α	345	21.199	57.877	55.618	1.00 43.74	AAAA
	2756	CB			345	20.860	59.248	55.039	1.00 44.49	AAAA
ATOM									_	AAAA
ATOM	2 75 7	OG	SER	A	345	19.645	59.729	55.577		
ATOM	2758	С	SER	Α	345	21.307	57.97 7	57.144	1.00 42.82	AAAA
					345	22.304	58.472	57.674	1.00 42.91	AAAA
ATOM	2759	0							1.00 41.48	
ATOM	2760	N	TYR	À	346	20.282	57. 509	57.849		AAAA
ATOM	2761	CA	TYR	Α	346	20.296	57.549	59.303	1.00 40.35	AAAA
					346	18.947	57.068	59.858	1.00 40.38	AAAA
ATOM	2762	CB								
MOTA	2763	CG	TYR	A	346	18.630	55.601	59.609	1.00 39.28	AAAA
ATOM	2764	ומס	TYR	A	346	19.293	54.589	60.316	1.00 38.74	AAAA
						19.022	53.243	60.079	1.00 37.71	AAAA
MOTA	2765		TYR							
ATOM	2766	CD2	TYR	Α	346	17.682	55.225	58.653	1.00 38.49	AAAA
ATOM	2767	CE2			346	17.405	53.882	58.408	1.00 38.17	AAAA
							52.899	59.126	1.00 37.59	AAAA
ATOM	2768	CZ			346	18.079				
ATOM	2769	OH	TYR	Α	. 346	17.794	51.580	58.898	1.00 37.14	AAAA
	2770	c			346	21.436	56.686	59.849	1.00 39.91	AAAA
ATOM									1.00 40.28	AAAA
ATOM	2771	0			. 346	21.967	56.957	60.921		
ATOM	2772	N	MET	Α	. 347	21.800	55.640	59.113	1.00 39.14	AAAA
								•		•

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ATOM	2773	CA	MET A	347	22.879	54.756	59.530	1.00 38.19	AAAA
ATOM	2774		MET A		23.042	53.582	58.566	1.00 38.26	AAAA
ATOM	2775		MET A		21.973	52.523	58.694	1.00 38.17	AAAA
	2776		MET A		22.317	51.115	57.641	1.00 38.05	AAAA
MOTA	2777		MET A		22.237	51.892	56.101	1.00 37.61	AAAA
MOTA	2778	C	MET A		24.189	55.494	59.603	1.00 38.00	AAAA
MOTA	2779	Ö	MET A		25.127	55.033	60.250	1.00 37.40	AAAA
MOTA	2780	N	LEU A		24.248	56.637	58.929	1.00 38.08	AAAA
MOTA		CA	LEU A		25.449	57.463	58.898	1.00 38.07	AAAA
ATOM	2781 2782	CB	LEU A		25.445	58.330	57.638	1.00 36.66	AAAA
MOTA	-	CG	LEU A		25.379	57.583	56.310	1.00 35.47	AAAA
ATOM	2783		LEU A		25.285	58.559	55.165	1.00 34.51	AAAA
MOTA	2784		LEU A		26.605	56.716	56.167	1.00 36.56	AAAA
ATOM	2785		LEU A		25.521	58.353	60.138	1.00 39.07	AAAA
ATOM	2786	C	LEU A		26.546	58.980	60.406	1.00 38.81	AAAA
ATOM	2787	0	GLU A		24.432	58.385	60.898	1.00 39.90	AAAA
MOTA	2788	N	GLU A		24.363	59.213	62.092	1.00 40.95	AAAA
ATOM	2789	CA	GLU A		22.961	59.821	62.203	1.00 41.70	AAAA
MOTA	2790	CB			22.515	60.629	60.966	1.00 42.28	AAAA
ATOM	2791	CG	GLU A		23.349	61.891	60.708	1.00 42.51	AAAA
ATOM	2792	CD	GLU A		23.414	62.778	61.587	1.00 42.38	AAAA
ATOM	2793		GLU A		23.933	61.998	59.614	1.00 43.34	AAAA
MOTA	2794	OE2	GLU A		24.740	58.511	63.406	1.00 41.12	AAAA
ATOM	2795	С	GLU A		24.664	59.118	64.476	1.00 41.38	AAAA
MOTA	2796	0	GLU A		25.140	57.243	63.326	1.00 40.86	AAAA
MOTA	2797	N		A 350	25.555	56.475	64.504	1.00 40.69	AAAA
MOTA	2798	CA		A 350	24.405	56.283	65.510	1.00 41.56	AAAA
MOTA	2799	CB		A 350	24.062	57.549	66.078	1.00 41.48	AAAA
ATOM	2800		THR		24.821	55.345	66.638	1.00 41.19	AAAA
ATOM	2801	CG2		A 350	26.109	55.109	64.141		AAAA
ATOM	2802	C		A 350	25.857	54.595	63.055	1.00 39.93	AAAA
ATOM	2803	0		A 350	26.865	54.527	65.067	1.00 40.32	AAAA
MOTA	2804	N		A 351	27.491	53.227	64.857	1.00 40.70	AAAA
MOTA	2805	CA		A 351 A 351	28.855	53.213	65.540	1.00 39.89	AAAA
ATOM	2806	CB		A 351 A 351	29.911	52.290	64.951	1.00 39.68	AAAA
ATOM	2807	CG	LEU		31.170	52.403	65.772	1.00 39.88	AAAA
ATOM	2808		LEU		29.414	50.861	64.945	1.00 40.70	AAAA
ATOM	2809 2810	C		A 351	26.612	52.091	65.384	1.00 41.12	AAAA
MOTA	2811	0		A 351	26.467	51.060	64.736	1.00 40.02	AAAA
ATOM	2812	N		A 352	26.040	52.292	66.567	1.00 42.99	AAAA
ATOM ATOM	2813	CA		A 352	25.138	51.326	67.201	1.00 43.93	AAAA
ATCM	2814	CB		A 352	25.412	51.225	68.707	1.00 43.38	AAAA
ATOM	2815	CG		A 352	26.743	50.597	69.055	1.00 44.68	AAAA
ATCM	2816	CD		A 352	27.185	50.927	70.482	1.00 45.48	AAAA
ATOM	2817	CE		A 352	26.189	50.500	71.539	1.00 46.21	AAAA
MOTA	2818	NZ		A 352	76.646	50.944	72.895	1.00 47.34	AAAA
ATOM	2819	C		A 352	23.723	51.838	67.003	1.00 44.40	AAAA
ATCM	2820	ō	LYS	A 352	.3.375	52.917	67.488	1.00 45.79	AAAA
ATOM	2821	N	ASP	A 353	22.904	51.083	66.287	1.00 44.78	AAAA
ATOM	2822	CA	ASP	A 353	21.532	51.509	66.074	1.00 44.79	AAAA
ATOM	2823	CB		A 353	21.050	51.030	64.702°		AAAA
ATOM	2824	CG		A 353	21.146	49.544	64.546	1.00 45.21	AAAA
ATOM	2825			A 353	21.806	49.086		1.00 45.06	AAAA
ATOM	2826	OD2	ASP	A 353	20.549	48.841	65.391	1.00 45.54	AAAA
ATOM	2827	С	ASP	A 353	20.645	50.993	67.217	1.00 44.44	AAAA
ATCM	2828	0	ASP	A 353	21.042	50.113	67.973	1.00 44.29	AAAA
ATOM	2829	N		A 354	19.439	51.553	67.367	1.00 44.22	AAAA
MOTA	2830	CD		A 354	18.839			1.00 44.38	AAAA
ATCM	2831	CA		A 354	18.500			1.00 44.18	AAAA
ATCM	2832	СВ		A 354	17.371	52.170			AAAA
ATCM	2833	CG		A 354	17.368	52.341			AAAA
ATOM	2834	C		A 354	17.995	49.740			AAAA
ATOM	2835	õ		A 354	17.962	49.152			AAAA
ATOM	2836	N		A 355	17.588	49.198			AAAA
ATOM	2837	CA		A 355	17.051				AAAA
atom atom	2838	CB		A 355	16.743	47.401	70.927	1.00 46.42	AAAA.
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MOTA	2839	CG	TRP			17.959	47.052	71.695	1.00 49.91	AAAA
MOTA	2840	CD2	TRP	Δ	355	18.476	45.733	71.903	1.00 51.56	AAAA
						_				
MOTA	2841	CE2	TRP	A	355	19.684	45.868	72.627	1.00 52.03	AAAA
ATOM	2842	CE3	TRP	2	355	18.038	44.450	71.548	1.00 52.25	AAAA
MOTA	2843	CD1	TRP	А	355	18.846	47.915	72.284	1.00 50.53	AAAA
MOTA	2844	NE1	TRP	A	355	19.885	47 208	72.846	1.00 51.63	AAAA
MOTA	2845	CZ2	TRP	А	355	20.460	44.763	73.003	1.00 52.64	AAAA
ATOM	2846	CZ3	ŤRP	Δ	355	18.810	43.352	71.921	1.00 53.12	AAAA
ATOM										
ATOM	2847	CH2	TRP	Α	355	20.008	43.518	72.642	1.00 53.02	AAAA
ATOM	2848	С	TRP	Δ	355	15.788	47.767	68.675	1.00 40.28	AAAA
MOTA	2849	0	TRP	А	355	15.017	48.720	68.591	1.00 39.82	AAAA
	2850	N	ARG	Δ	356	15.591	46.610	68.065	1.00 36.83	AAAA
ATOM										
ATÓM	2851	CA	ARG	А	356	14.440	46.365	67.225	1.00 33.70	AAAA
MOTA	2852	CB	ARG	Δ	356	14.901	46.197	65.772	1.00 29.50	AAAA
ATOM	2853	CG	ARG	A	356	15.635	47.423	65.256	1.00 25.22	AAAA
MOTA	2854	CD	ARG	Α	356	16.418	47.194	63.973	1.00 21.53	AAAA
MOTA	2855	NE	ARG	А	356	17.055	48.435	63.533	1.00 18.55	AAAA
ATOM	2856	CZ	ARG	А	356	17.976	48.533	62.574	1.00 17.06	AAAA
						18.403	47.451	61.919	1.00 17.64	AAAA
ATOM	2857		ARG							
ATOM	2858	NH2	ARG	Α	356	18.445	49.721	62.241	1.00 11.56	AAAA
						13.831	45.095	67.773	1.00 34.63	AAAA
ATOM	2859	C	ARG	~	330	•				
MOTA	2860	0	ARG	Α	356	13.605	44.117	67.051	1.00 35.86	AAAA
			GLY			13.587	45.112	69.079	1.00 34.58	AAAA
ATOM	2861	N								
ATOM	2862	CA	GLY	Α	357	13.003	43.960	69.734	1.00 34.33	AAAA
						11.536	43.783	69.395	1.00 34.31	AAAA
ATOM	2863	С	GLY							
ATOM	2864	0	GLY	Α	357	11.006	44.418	68.484	1.00 33.56	AAAA
		N	GLY			10.876	42.906	70.139	1.00 34.47	AAAA
ATOM	2865									
MOTA	2866	CA	GLY	Α	358	9.468	42.656	69.916	1.00 34.61	AAAA
	2867	С	GLY	Δ	358	9.114	41.389	70.655	1.00 34.47	AAAA
MOTA										
ATOM -	2868	0	GLY	Α	358	9.962	40.821	71.345	1.00 34.27	AAAA
ATOM	2869	N	GLU	Δ	359	7.869	40.948	70.523	1.00 34.16	AAAA
ATOM	2870	CA	GLU	Α	359	7.438	39.729	71.180	1.00 33.94	AAAA
ATOM	2871	CB	GLU	Α	359	5.910	39.644	71.174	1.00 34.78	AAAA
									1.00 36.70	AAAA
ATOM	2872	CG	GLU			5.2 7 8	40.648	72.123		
ATOM	2873	CD	GLU	Α	359	3.863	41.020	71.740	1.00 38.40	AAAA
								71.600	1.00 39.65	AAAA
ATOM	2874	OFI	GLU	А	202	3.017	40.108			
MOTA	2875	OE2	GLU	Α	359	3.598	42.234	71.584	1.00 38.52	AAAA
						8.058	38.549	70.464	1.00 32.86	AAAA
ATOM	2876	C	GLU							
ATOM	2877	0	GLU	Α	359	8.678	38.692	69.427	1.00 32.92	AAAA
		N	VAL	3	360	7.918	37.375	71.036	1.00 32.63	AAAA
ATOM	2878									
ATOM	2879	CA	VAL	Α	360	8.480	36.215	70.409	1.00 32.70	AAAA
	2880	CB			360	9.422	35.472	71.376	1.00 33.24	AAAA
MOTA										
MOTA	2881	CG1	VAL	A	360	10.017	34.252	70.701	1.00 32.99	AAAA
ATOM	2882	CG2	VAL	A	360	10.521	36.406	71.827	1.00 32.09	AAAA
MOTA	2883	С	VAL	Α	360	7.339	35.319	69.976	1.00 32.81	AAAA
ATOM	2884	0	VAL	A	360	6.702	34.660	70.791	1.00 32.02	AAAA
									1 00 22 12	2222
ATOM	2885	N			361	7.084	35.321	68.674	1.00 33.12	AAAA
ATOM	2886	CA	ARG	Α	361	6.035	34.508	68.086	1.00 33.52	AAAA
	2887	CB			361	6.148	34.558	66.565	1.00 33.43	AAAA
ATOM										
ATOM	2888	CG	ARG	Α	361	5.731	35.885	65.967	1.00 34.35	AAAA
	2889	CD	ARG			6.041	35.972	64.469·	1.00 33.90	AAAA
MOTA										
MOTA	2890	NE	ARG	Α	361	7.430	36.331	64.193	1.00 31.70	AAAA
	2891	CZ	ARG	3	361	7.890	36.608	62.978	1.00 31.18	AAAA
MOTA										
MOTA	2892	NHl	ARG	A	361	7.068	36.562		1.00 30.48	AAAA
MOTA	2893		ARG			9.162	36.948	62.802	1.00 29.71	AAAA
										AAAA
ATOM	2894	С	ARG	Α	361	6.066	33.057	68.557	1.00 34.20	
MOTA	2895	0	ARC	۵	361	7.101	32.537	68.968	1.00 33.79	AAAA
									1.00 34.68	AAAA
MOTA	2896	N			362	4.914	32.407	68.496		
ATOM	2897	CA	LYS	۵	362	4.808	31.022	68.901	1.00 35.62	AAAA
									1.00 37.80	AAAA
ATOM	2898	CB	LYS	A	362	3.350	30.555	68.782		
ATOM	2899	CG	1.75	A	362	2.378	31.226	69.756	1.00 40.38	. AAAA
									1.00 42.09	AAAA
ATOM	2900	CD			362	2.505	32.777	69.777		
ATCM	2901	CE	LYS	Α	362	2.208	33.446	68.420	1.00 41.94	AAAA
						2.473		68.451	1.00 39.85	AAAA
ATOM	2902	NZ			362		34.909			
ATCM	2903	С	LYS	Α	362	5.710	30.177	68.005	1.00 35.12	AAAA
						6.425		68.487	1.00 34.14	AAAA
ATCM	2904	0	アエラ	~	362	0.443	29.301	00.40/	****	TANK I

MOTA	2905	N .	GLU A	363	5.661	30.460	66.703 .	1.00 35.12	AAAA
MOTA	2906		GLU A		6.445	29.741	65.699	1.00 35.62	AAAA
MOTA	2907	CB	GLU 2	363	6.567	30.560	64.424	1.00 36.81	AAAA
MOTA	2908		GLU A		5.280	30.808	63.711	1.00 38.66	AAAA
MOTA	2909		GLU A		5.477	31.704	62.517	1.00 39.60 1.00 39.11	AAAA AAAA
- MOTA	2910		GLU ?		6.287	31.324	61.637	1.00 39.11	AAAA
MOTA	2911		GLU A		4.826	32.782	62.469 66.181	1.00 35.33	ÄAAA
ATOM	2912		GLU A		7.836	29.450 28.316	66.098	1.00 34.50	AAAA
MOTA	2913		GLU A		8.321 8.475	30.505	66.671	1.00 34.96	AAAA
ATOM	2914		VAL A		9.830	30.431	67.180	1.00 34.44	AAAA
MOTA	2915 2916		VAL A		10.338	31.821	67.570	1.00 33.68	AAAA
ATOM	2917		VAL ?		11.739	31.722	68.162 -		AAAA
ATOM	2918		VAL 2		10.337	32.715	66.347	1.00 31.83	- AAAA
ATOM	2919	C	VAL A		9.908	29.499	68.370	1.00 34.44	AAAA
ATOM	2920	0		364	10.789	28.640	68.430	1.00 36.01	-AAAA
ATOM	2921	N	LYS 2		8.980	29.649	69.305	1.00 33.27	AAA
ATOM	2922	CA		A 365	8.970	28.790	70.476	1.00 33.20	AAAA AAAA
ATOM	2923	CB		A 365	7.968	29.319	71.508	1.00 34.28	AAAA
MOTA	2924	CG		A 365	8.307	30.705	72.033 73.039	1.00 34.85	AAAA
MOTA	2925	CD		A 365	7.282 7.658	31.181 32.534	73.638	1.00 36.47	AAAA
MOTA	2926	CE		A 365	6.698	32.990	74.710	1.00 37.91	AAAA
ATOM	2927	NZ		A 365 A 365	8.654	27.342	70.109	1.00 32.75	AAAA
MOTA	2928 2929	С 0		A 365	9.071	26.421	70.818	1.00 31.95	AAAA
ATOM ATOM	2930	N		A 366	7.919	27.136	69.012	1.00 32.81	AAAA
ATOM	2931	CA		A 366	7.600	25.777	68.581	1.00 33.65	AAAA
ATOM	2932	CB		A 366	6.459	25.726	67.557	1.00 33.98	AAAA
ATOM	2933	CG		A 366	5.131	26.107	68.140	1.00 33.94	AAAA
MOTA	2934			A 366	4.870	25.767	69.307	1.00 33.89	AAAA AAAA
ATOM	2935			A 366	4.332	26.722	67.412	1.00 35.08 1.00 33.05	AAAA
ATOM	2936	c		A 366	8.820 9.140	25.167 24.006	67.940 68.172	1.00 33.65	AAAA
MOTA	2937	0		A 366	9.473	25.959	67.102	1.00 33.07	AAAA
ATOM	2938 2939	N CA		A 367 A 367	10.684	25.540	66.412	1.00 32.27	AAAA
ATOM ATOM	2940	CB		A 367	11.304	26.719	65.641	1.00 32.28	AAAA
ATOM	2941	OG1		A 367	10.473	27.039	64.520	1.00 30.64	AAAA
ATOM	2942	CG2		A 367	12.711	26.377	65.166	1.00 33.29	AAAA
ATOM	2943	С		A 367	11.680	25.044	67.442	1.00 31.71	AAAA
ATOM .	2944	0		A 367	12.178	23.918	67.352	1.00 30.45	AAAA AAAA
MOTA	2945	N		A 368	11.955	25.896 25.560	68.426 69.482	1.00 32.05 1.00 32.49	AAAA
ATOM	2946	CA		A 368	12.888 13.085	26.749	70.421	1.00 32.27	AAAA
ATOM	2947	CB	LEU	A 368 A 368	14.097	27.809	69.960	1.00 32.71	AAAA
ATOM	2948 2949	CG		A 368	15.488	27.170	69.899	1.00 33.00	AAAA
MOTA MOTA	2950			A 368	13.709	28 393	68.597	1.00 31.86	AAAA
ATOM	2951	C	LEU	A 368	12.455	24.334	70.256	1.00 33.82	AAAA
ATOM	2952	ō	LEU	A 368	13.266	23.133	70.489	1.00 34.29	AAAA
ATOM	2953	N	GLU	A 369	11.183	24.285	70.645	1.00 34.30	AAAA AAAA
ATOM	2954	CA		A 369	10.687	23.135	71.375	1.00 36.07	AAAA
MOTA	2955	CB		A 369	9.211	23.319	71.748	1.00 38.71	AAAA
MOTA	2956	CG		A 369	8.974	24.285 24.359	72.920 73.341	1.00 40.18	AAAA
MOTA	2957	CD		A 369	7.509 6.917	23.276	73.572	1.00 41.83	AAAA
ATOM	.2958			A 369	6.957	25.489	73.451	1.00 41.74	AAAA
ATOM	2959	C	CIII	A 369 A 369	10.893	21.822	70.611	1.00 37.16	AAAA
MOTA	2960 2961	ō		A 369	11.338	20.831	71.196	1.00 37.00	AAAA
ATOM ATOM	2962	N		A 370	10.586	21.788	69.315	1.00 37.71	AAAA
ATOM	2963	CA		A 370	10.797	20.547	68.567	1.00 38.46	AAAA
ATOM	2964	CB		A 370	10.166	20.604	67.177	1.00 39.96	AAAA
MOTA	2965	CG	LYS	A 370	8.646	20.532	67.186	1.00 42.68	AAAA
ATOM	2966	CD	LYS	A 370	8.092	20.320	65.775	1.00 44.54	AAAA AAAA
ATOM	2967	CE	LYS	A 370	6.572	20.075	65.781	1.00 45.55 1.00 45.50	AAAA
ATOM	2968	NZ	LYS	A 370	6.009	19.797	64.409	1.00 45.30	AAAA
ATOM	2969	C	LYS	A 370	12.282 12.683	20.235	68.452 68.493	1.00 37.86	AAAA
ATCM	2970	0	LYS	A 370	17.002	19.071	00.433	1.00 37.00	

ATOM 2972 CA ALA A 371 14.543 21.057 68.226 1.00 37.20 AA ATOM 2973 CB ALA A 371 15.258 22.375 67.936 1.00 35.48 AA ATOM 2974 C ALA A 371 15.023 20.477 69.558 1.00 37.63 AA ATOM 2975 O ALA A 371 15.920 19.626 69.585 1.00 37.12 AA ATOM 2976 N LYS A 372 14.426 20.930 70.665 1.00 37.59 ATOM 2977 CA LYS A 372 14.796 20.432 71.995 1.00 37.46 ATOM 2978 CB LYS A 372 14.022 21.156 73.095 1.00 36.52 ATOM 2979 CG LYS A 372 14.022 21.156 73.095 1.00 36.52 ATOM 2979 CG LYS A 372 14.287 22.634 73.111 1.00 22.67 ATOM 2980 CD LYS A 372 13.309 23.396 74.022 1.00 22.67 ATOM 2981 CE LYS A 372 13.600 24.874 73.901 1.00 22.67 ATOM 2981 CE LYS A 372 13.600 24.874 73.901 1.00 22.67 ATOM 2982 NZ LYS A 372 12.692 25.708 74.785 1.00 22.67 ATOM 2983 C LYS A 372 14.495 18.957 72.077 1.00 37.26 ATOM 2984 O LYS A 372 14.495 18.957 72.077 1.00 37.26 ATOM 2984 O LYS A 372 15.367 18.171 72.407 1.00 37.26 ATOM 2984 O LYS A 372 15.367 18.171 72.407 1.00 37.26 ATOM 2984 O LYS A 372 15.367 18.171 72.407 1.00 37.26	AA AA AA AA AA AA AA AA AA
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ATOM 2304 0 313 13 240 19 505 71 799 1 00 38 17 AZ	
ATOM 2303 N Mai N 373	
ATOM 2986 CA ALA A 373 12.812 17.206 71.829 1.00 39.55 A	AA
ATOM 2987 CB ALA A 373 11.365 17.109 71.395 1.00 39.34 AZ	LAA
ATOM 2988 C ALA A 373 13.675 16.277 70.972 1.00 41.02 A	AA
ATOM 2989 O ALA A 373 14.366 15.410 71.561 1.00 42.26 AJ	LA.A
ATOM 2990 OXT ALA A 373 13.663 16.416 69.725 1.00 42.06 AM	AA
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HETATM 2992 OI SHA C I	AHA
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HETATM 2996 CZ Sha C 1	AHA
HETATM 2997 C3 SAA C 1 23.332	AHA
HETAIM 2990 C4 Sim C 2	AHA
HETATM 2999 CS SRA C 1	AHA
HETATM 3000 CO Sha C I	AHA
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HETATM 3002 CB SHA C 1	AHA
HETATM 3003 OS SRA C 1 20.501	
HETATM 3004 NZ SHA C I	AHA
HETATM 3000 C9 SRA C 1 15.042 30.330 41.300	AHA
HETATM 3006 C10 SHA C 1 19.243 39.431 45.215 1.00 55.76	AHA
HETATM 3007 C11 SHA C 1 19.423 40.804 44.727 1.00 56.53 S	AHA
HETATM 3008 C12 SHA C 1 20.169 41.085 43.545 1.00 56.58 5	AHA
u_{FTATM} 3009 C13 SHA C 1 20.755 39.942 42.827 1.00 55.93	AHA
HETATM 3010 C14 SHA C 1 20.612 38.546 43.304 1.00 54.65	AHA
UPTATM 3011 OH2 WAT D 2 36.485 44.023 49.378 1.00 4.67 S	OLV
HETET 3012 OH2 WAT D 3 27.702 16.865 62.162 1.00 4.67 S	OLV
HETPATM 3013 OH2 WAT D 4 23.251 30.387 59.575 1.00 10.12 5	OLV
HETATM 3014 OH2 WAT D 5 33.825 41.862 46.926 1.00 21.13 S	OLV
UPDATE 3015 OH2 WAT D 6 24.866 44.453 47.867 1.00 23.72 S	OLV
ω rank anis ohe wat to ? $34.145 + 20.442 + 33.590 + 1.00 + 8.19$	OLV
H_TATM 3017 OH2 WAT D 8 7.921 29.753 62.099 1.00 20.79 S	OLV
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HETATM 3020 On2 WAT B 11	OLV
RETAIN JUZI ONE WAT D ID	OLV
HETATM 3022 OH2 WAT D 13	OLV
HETATM 3023 OH2 WAI D 14 22.437	OLV
HETAIM 3024 OHZ WAI D 13	OLV
HETATM 3025 OHZ WAT D 16 32.273 31.414 43.020 27.00	OLV
HETATM 3026 OH2 WAT D 17	OLV
UPDATE 3027 ON2 WAT D 18 48.249 24.121 56.778 1.00 15.09	OLV
HEIRIN 3027 ONE WAT B 10	
HETATM 3028 OH2 WAT D 19 15.249 44.552 72.082 1.00 40.95	
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	2027	0110	1.13 CD	_	20		20.659	9 :	28.788	43.520	1.00	28.55	SOLV
HETATM			TAW		28.		32.27		38.000	53.512		47.72	SOLV
HETATM			WAT		29		18.28		29.333	54.536		21.34	SOLV
HETATM			TAW		30		49.97		38.669	73.461		31.02	SOLV
HETATM			TAW		31		21.58		50.386	71.043		14.52	SOLV
HETATM			WAT		32		46.78		32.121	33.375		31.79	SOLV
${\tt HETATM}$			TAW		33		33.35		39.755	49.117		16.13	SOLV
HETATM			WAT		34		7.68		37.657	51.568		27.22	SOLV
HETATM	3044		TAW		35		44.23		35.392	33.961	1 00	19.67	SOLV
HETATM	3045		TAW		36		10.90		25.384	58.206		33.51	SOLV
HETATM	3046		TAW		37		36.75		27.243	70.552		39.61	SOLV.
HETATM			TAW		38			_	46.691	54.654	1 00	32.43	SOLV
HETATM	3048		TAW		39		45.82		20.282	52.165		39.37	SOLV
HETATM	3049		TAW		40		52.48		17.831	56.596		27.74	SOLV
HETATM	.3050		TAW		42		12.11		26.168	35.172		14.09	SOLV
HETATM	3051		WAT		43		45.02		12.771	62.066		35.15	SOLV
HETATM	3052		WAT		44		39.39		26.970	63.814		22.23	SOLV
HETATM	3053		WAT		45		3.93		19.321	71.677		32.36	SOLV
HETATM	3054		WAT		46		8.45		18.126	73.237		33.88	SOLV
HETATM	3055		TAW		47				39.409	54.873		18.57	SOLV
HETATM	3056		WAT		48		9.32		41.323	58.048		21.25	SOLV
HETATM	3057		TAW		49		50.85		34.599	60.315		61.70	SOLV
HETATM	3058		TAW		50		37.13			48.613		42.50	SOLV
HETATM	3059		WAT		51		14.94		62.815	51.420		40.65	SOLV
HETATM	3060		WAT		52		6.49		33.164	72.298		17.10	SOLV
HETATM	3061		TAW		53		24.91		44.799			23.05	SOLV
HETATM	3062		WAT		54		51.15		35.095	48.814		49.25	SOLV
HETATM	3063		WAT		55		16.51		41.750	45.596		46.03	SOLV
HETATM	3064		TAW		56		10.32		16.413	61.267		22.73	SOLV
HETATM			TAW		57		25.31		47.708	73.062		3 44.82	SOLV
HETATM	3066	OH2	TAW	D	58		4.01		33.865	76.173		34.67	SOLV
HETATM	3067		TAW		59		24.84		18.072	36.805	1.00	0 55.56	SOLV
HETATM		OH2	WAT	D	60		15.93		56.853	61.737		0 28.72	SOLV
HETATM	3069		TAW		61		49.66		44.249	48.982		0 13.11	SOLV
HETATM	3070	OH2	WAT	D	62.		23.23		17.421	53.920	1.0	0 35.79	SOLV
HETATM	3071		TAW		63		39.29		23.035	33.289	1.0	0 24.33	SOLV
HETATN	1 3072		WAT		64		19.90		20.169	44.339		0 45.10	SOLV
HETATA	1 3073	OH2	WAT	D	65		33.29		21.655	69.560		0 44.79	SOLV
HETATA	1 3074		WAT		66		27.5		53.947	68.629		0 54.01	SOLV
HETATI	4 3075		WAT		67		18.7		48.716	52.865	1.0	0 27.08	SOLV
HETATI	4 3076		WAT		68		10.8		29.062	63.401	1.0	0 30.16	SOLV
HETATI	1 3077		WAT		69		43.0	_	31.367	28.786		0 20.11	SOLV
	4 3078	OH2	WAT	D	70		24.8		44.057			0 33.55	SOLV
	1 3079		TAW		71		37.3		38.823			0 31.34	SOLV
	M 3080	OH2	TAW	D	72		9.0		18.327		1.0	0 28.32	· SOLV
HETATI	M 3081	OHZ	TAW S	D	73		51.7		20.829				SOLV
HETAT	M 3082	OH2	YAW	D	74		17.5		58.515	57.254	1.0	0 19.27	SOLV
HETAT	80E M	OH2	TAW S	D	75		28.4		27.904			0 94.18	SOLV
	M 3084		TAW S		76		18.9		35.798		1.0	0 73.70	SOLV
HETAT	M 3085	OH	TAW S	D	77		34.3		31.251			0 30.23	SOLV
HETAT	м 3086		TAW S		78		44.3		51.649			0 21.09	SOLV
HETAT	м 3087	OH	TAW S	D	79		28.5		63.478			0 28.59	SOLV
HETAT	M 3088		TAW S		80		6.8		44.113		1.0	00 20.39	
HETAT	м 3089	OH	2 WAT	פ	81		42.8		18.761	71.115		0 31.80	SOLV
בבתשת	м 3090	OH:	TAW S	D	82		36.7		59.078	53.901		0 40.11	SOLV
READL	м 3091	OH	TAW S	D	83		37.5		42.495			0 51.37	
SETAT	M 3092		TAW S		84		40.0	54	38.439		1.0	0 20.07	
#ET3T	м 3093		TAW S		85		32.1	70	56.633			0 45.23	
הערבה הערביי	M 3094		2 WAT				24.4		53.877	47.119		00 41.18	
おたなかな いで1V1	M 3095		2 WAT	פֿ	87		48.5	85	35.663			00 33.40	
TAIAT	м 3095 м 3096		2 WAT	ם י	88		29.5		57.166			00 44.61	SOLV
ELIAI Company	M 3097		2 WAT	ם י	89		47.8		28.707			00 45 64	SOLV
ELTAT	M 3098		2 WAT	ת י			49.3	77	52.112			00 22.26	SOLV
naTAT	סבטנ זע סבטנ זע		2 WAT	ם י	91		44.2	19	43.589			00 39.90	
ETAT	M 3099		2 WAT	תי.	92	•	25.9	13	61.639	75.38		00 48.28	
ETAT	M 3100		2 WAT				8.6		30.749		7 1.0	00 40.37	SOLV
HETAT	M 3101		2 WAT				45.6		41.080	40.99	0 1.	00 21.46	SOLV
ETAT	M 3102			_	- •					•			•

HETATM	3103	OH2	raw s	. [95	29.984	34.886	51.725	1.00 35.75	SOLV
HETATM	3104	OH2	raw S	, [96	13.051	21.934	49.804	1.00 46.73	SOLV
HETATM	3105	OH2	TAW S	` E	97	32.412	65.913	55.822	1.00 43.39	SOLV
HETATM	3106	OH2	TAW S	, D	98	35.056	43.390	38.348	1.00 34.53	SOLV
HETATM	3107	OH2	YAT	, [99	22.360		60.688	1.00 19.16	
HETATM	3108	OH2	. WAT	' D	100	50.755		57.906	1.00 42.45	SOLV
HETATM	3109		WAT			7.875		74.094	1.00 42.45	SOLV
HETATM	3110		WAT			24.080		43.617		SOLV
HETATM			WAT			45.206		75.765	1.00 30.72	SOLV
HETATM			WAT			26.110	54.786	40.685	1.00 39.89	SOLV
HETATM			WAT			25.918	39.658	77.647	1.00 29.58	SOLV
HETATM			WAT			41.578	18.191	36.809	1.00 44.04	SOLV
HETATM			WAT			31.945	51.420		1.00 42.22	SOLV
HETATM			WAT			16.722	60.311	73.896	1.00 41.15	SOLV
HETATM			WAT			43.604	_	51.182	1.00 48.74	SOLV
HETATM			WAT			16.063	38.573	78.141	1.00 36.22	SOLV
HETATM			WAT			21.630	15.496	69.430	1.00 55.36	SOLV
HETATM			WAT			27.479	22.785	49.145	1.00 36.52	SOLV
HETATM			WAT			14.739	56.647	44.026	1.00 50.82	solv
HETATM			WAT			50.063	51.674 26.435	61.674	1.00 35.55	SOLV
HETATM			WAT			43.935		54.358	1.00 50.86	SOLV
HETATM			WAT			49.707	38.427	73.129	1.00 44.21	SOLV
HETATM			WAT			25.032	31.478	57.709	1.00 36.11	SOLV
HETATM			WAT			10.618	43.463	55.676	1.00 38.06	SOLV
HETATM			WAT			48.466	46.623	59.838	1.00 26.33	SOLV
HETATM			WAT			44.157	33.382	61.437	1.00 19.82	SOLV
HETATM			WAT			51.267	40.058	37.907	1.00 42.95	SOLV
HETATM			WAT			16.653	29.446		1.00 38.93	SOLV
HETATM			WAT			36.898	15.228	72'. 975	1.00 45.41	SOLV
HETATM			WAT			49.655	45.148 34.591	41.936	1.00 27.00	SOLV
HETATM			WAT			12.285	57.594	59.117	1.00 38.97	SOLV
HETATM			WAT			28.294	57.644	42.107	1.00 23.56	SOLV
HETATM			WAT			19.138	60.403	73.289	1.00 34.79	SOLV
HETATM			WAT			30.300	33.685	61.551	1.00 28.58	SOLV
HETATM			WAT			40.898	53.983	34.047	1.00 27.37	SOLV
HETATM			WAT			43.550	32.160	47.254	1.00 16.30	SOLV
HETATM	-		TAW			18.624	13.959	38.272	1.00 38.86	SOLV
HETATM			WAT			18.580	12.901	56.194	1.00 37.70	SOLV
HETATM			WAT			35.830	30.296	62.894	1.00 27.28	SOLV
HETATM			WAT			51.219	35.855	50.621	1.00 42.47	SOLV
HETATM			TAW			50.428	22.486	51.878 49.267	1.00 20.37	SOLV
HETATM	_		WAT		-	51.633	29.369		1.00 39.37	SOLV
HETATM			WAT			46.384	43.924	63.918 55.825	1.00 33.99	SOLV
HETATM		-	WAT			30.356	25.767	28.762	1.00 22.63	SOLV
HETATM			WAT			25.070	47.842	60.819	1.00 25.84	SOLV
HETATM			WAT			47.097	49.394	69.367	1.00 25.00	SOLV
HETATM			TAW			15.246	37.581	73.398	1.00 30.58	SOLV
HETATM	3150		WAT			8.341	23.099	64.695	1.00 36.82	SOLV
HETATM .			WAT		_	30.065	18.220	46.048	1.00 35.89	SOLV
HETATM			WAT			11.930	46.453	57.606	1.00 14.26	SOLV
				_			.0.423	37.000	1.00 36.15	SOLV

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/24700

								
A. CLASSIFICATION OF SUBJECT MATTER								
IPC(7) :C07K 14/00; G01N 55/575 US CL :Please See Extra Sheet.								
According to International Patent Classification (IPC) or to both national classification and IPC								
R. FIELDS SEARCHED								
Minimum documentation searched (classification system follo	wed by classification symbols)							
U.S. : Please See Extra Sheet.								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)								
Please See Extra Sheet.								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.						
Y KAKUTA et al. Crystal Structure of Human Heparan Sulfate N-Deacetyl Journal of Biological Chemistry. Number 16, pages 10673-10676, see	1-19							
Y SUEYOSHI et al. A role of Lys-614 of human heparan sulfate N-deacetu Letters. 1998, Volume 433, pages abstract.	1-19							
		·						
X Further documents are listed in the continuation of Box C. See patent family annex.								
"A" document defining the general state of the art which is not considered to be of particular relevance "A" document defining the general state of the art which is not considered to be of particular relevance "B later document published after the international filling date and not in conflict with the application but nited to the principle or theory underlying the invention								
E" earlier document published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step								
"L" document which may throw doubts on priority claim(s) or which is when the document is taken alone cited to establish the publication date of another citation or other								
special mason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art								
document published prior to the international filing date but later "A" document member of the same patent family than the priority date claimed								
Date of the actual completion of the international search Date of mailing of the international search report								
25 JAN 2001								
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Authorized officer ARDIN MARSOHEL								
Facsimile No. (708) 305-3980	Telephone No. (704) 404 0100							

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/24700

<u> </u>						
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the releva	nt passages	Relevant to claim No.			
Y	AHMAD et al. WD Repeats of the p48 Subunit of Chic Chromatin Assembly Factor-1 Required for in Vitro Int with Chicken Histone Deacetylase-2. The Journal of Bi Chemistry. 04 June 1999, Volume 274, Number 23, pages 16653, see especially the abstract.	1-19				
Y	JOHN et al. Rhizobium NodB protein involved in nodu signal synthesis is a chitooligosaccharide deacetylase. Prof the National Academy of Sciences, USA. January 1999, pages 625-629, see especially the abstract.	roceedings	1-19			
A	US 5,780,594 A (CARTER) 14 July 1998, see the entire	disclosure.	1-19			

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/24700

A. CLASSIFICATION OF SUBJECT MATTER: US CL:

530/550 and 435/7.9

B. FIELDS SEARCHED
Minimum documentation searched
Classification System: U.S.

530/300,533,550; 435/6,7.2; 514/9

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

CAS, BIOTECH ABS, MEDLINE, EMBASE, WPI, WEST covering search terms: deacetylase, human, crystal, histone, inhibitor, x-ray, and crystallography

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